

**NEWARK BAY STUDY AREA**

**ADDITIONAL SITES AND  
CANDIDATE PRPS FOR THE  
NEWARK BAY STUDY AREA**

**PRESENTATION REPORT**

PREPARED BY:  
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SUBMITTED TO:  
USEPA REGION II

MAY 23, 2007

# **ADDITIONAL SITES AND CANDIDATE PRPS FOR THE NEWARK BAY STUDY AREA**

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# ***Newark Bay Study Area - - Additional Sites & Candidate PRPs***

Presentation May 23, 2007

to

United States Environmental Protection  
Agency, Region II

# ***Additional Sites Presented 5/23/07 to USEPA***

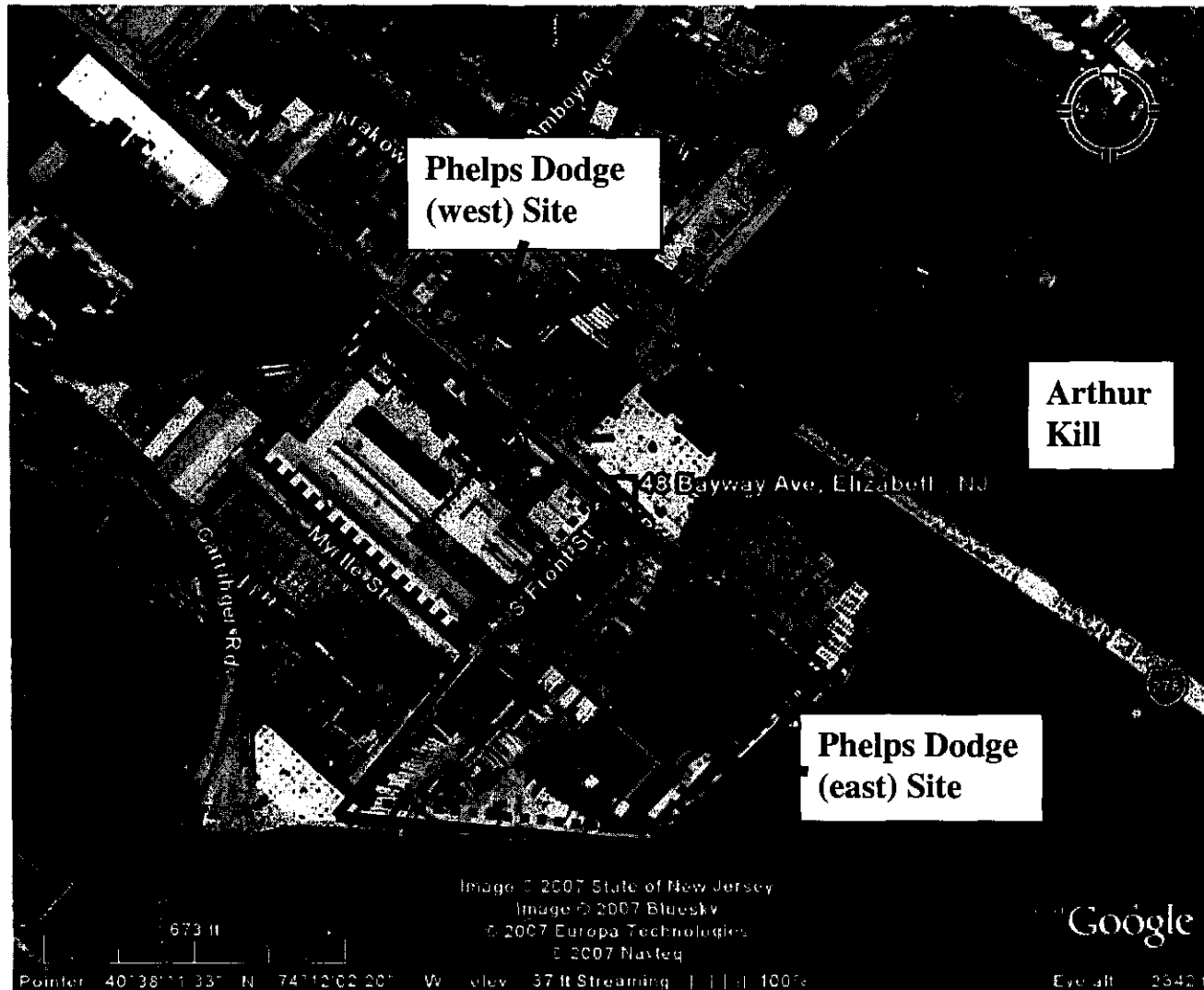
- Phelps Dodge, Elizabeth
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# ***Additional Sites - - Overview Map***



Adobe Acrobat  
Document

# ***Phelps Dodge, Elizabeth Site***



**48-94 Bayway Ave. and 720 South Front St., Elizabeth, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION.**

# ***Phelps Dodge, Elizabeth Site Background***

- Site is comprised of two tracts (the West Site and the East Site), and is located adjacent to the Arthur Kill in Elizabeth, NJ.
- Metals manufacturing has been conducted on the Site since 1902 by the following owner/operators:
  - The Waclark Wire Company (1902 – 1928)
  - National Electric Products Corporation (1928 – 1930)
  - Phelps Dodge Industries, Inc. and/or Phelps Dodge Mining Company (1930 – present)

*(BBH000004, DGE000027, DGE000028, DGE000033, DGE000035, DGE000048 )*

# ***Phelps Dodge, Elizabeth Site Background (cont'd)***

- From 1930 to the present, Phelps Dodge has conducted copper products manufacturing at the Site.
- Operations ceased on the East Site in December 1983.
- Process operations include(d): extrusion, wire drawing, flat rolling, draw bench and hot dip tinning.

*(BBH000004, DGE000027, DGE000035, DGE000050, DGE000054)*



# ***Phelps Dodge, Elizabeth Site Background (cont'd)***

Numerous hazardous substances/raw materials are identified as being utilized on Site:

- Various Metals (including copper, chromium, cadmium, lead, zinc)
- Sulfuric Acid
- Hydrochloric Acid
- Perchloroethylene
- Methyl Chloride
- Lubricating Oils and Petroleum Products

*(DGE000004, DGE000027, DGE000028, DGE000029, DGE000031, DGE000039, DGE000040)*

# ***Phelps Dodge, Elizabeth Site Regulatory Status***

- In a November, 1965 letter to Phelps Dodge, the Interstate Sanitation Commission advised setting up an abatement program to eliminate oil and fine copper solids from being discharged to the Arthur Kill.
- In October, 1966 the Mayor of the City of Elizabeth wrote the Interstate Sanitation Commission, noting that Phelps Dodge “discharges extremely strong industrial wastes that would be difficult to treat at the Joint Meeting Treatment Plant without proper pre-conditioning”.

(DGE000041, DGE000042)

# ***Phelps Dodge, Elizabeth Site Discharge Routes***

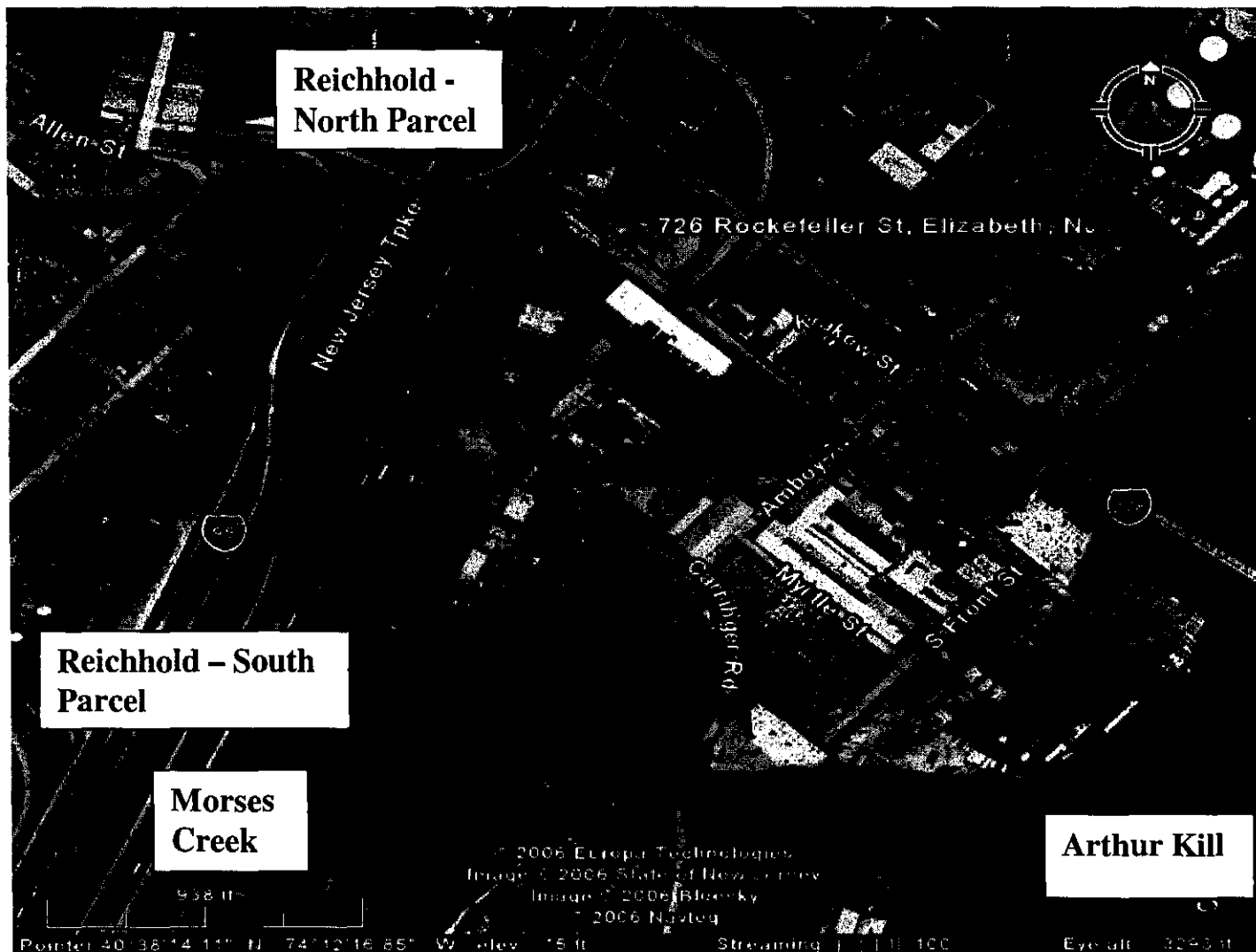
- Prior to 1967, all process wastewaters and the majority of sanitary wastes from the Site were discharged, untreated, directly to the Arthur Kill.
- The Site is located within a CSO district that bypasses to the Arthur Kill. Post 1967, wastes from the Site are discharged to the Arthur Kill during combined sewer overflows.

(BAB000135, BAL000005, DGE000041)

# ***Phelps Dodge, Elizabeth Site Candidate PRPs***

- Phelps Dodge Industries, Inc. (c/o Phelps Dodge Corporation)
- Phelps Dodge Mining Company (c/o Phelps Dodge Corporation)

# ***Reichhold Site, Elizabeth***



**726 Rockefeller Street, Elizabeth, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION.**

# ***Reichhold Site, Elizabeth Background***

- Approximately 19.5-acre site located adjacent to Morses Creek in Elizabeth, NJ.
- Reichhold commenced Site operations in 1936 and ceased operations at the Site in 1990.
- Reichhold expanded manufacturing operations by acquiring additional properties from various owners including, but not limited to:
  - Skinner Bros. (metal operations purchased 1936)
  - Magnolia Metal Co. (purchased 1941)
  - California Spray Chemical Corp. (purchased 1955)
  - New Jersey Metals Co. (purchased 1959)
  - Phelps Dodge Industries, Inc. (purchased 1975)
  - I. Reiss Co. (metal operations purchased 1977)

(BBA000001, BBA000002, BBA000011, BBA000012, BBA000013, BBA000017, BBD000007 )

# ***Reichhold Site, Elizabeth Background (cont'd)***

- From 1936 to 1990, Reichhold manufactured, stored, and distributed chemicals and resins including (without limitation):
  - Maleic Anhydride (USEPA Class III Organic Chemical associated with the formation of dioxin)
  - Phthalic Anhydride (USEPA Class III Organic Chemical associated with the formation of dioxin)
  - Phenol-Formaldehyde Resins
  - Beckamines (urea/formaldehyde resins)
  - Lustralite (ortho paratoluene sulonimide resins)

# ***Reichhold Site, Elizabeth Background (cont'd)***

- Subsequent to the 1987 sale of the Site to Dainippon Ink and Chemicals, Inc., site remediation commenced in accordance with ECRA.
- In 2006, the Site was sold to Swiss North American Properties, Inc.
- Reichhold continues to be responsible for ongoing remedial requirements under ECRA.

(BBA000005, BBA000006, BBA000009)



# ***Reichhold Site, Elizabeth Regulatory Status***

- In December of 1963, the NJ Dept. of Health issued a Notice requiring Reichhold to cease discharging industrial waste and other polluting matter into the Arthur Kill by January 1965.

(BBB000003)

# ***Reichhold Site, Elizabeth Site Contamination***

Site soil sampling identified the following contaminants in Site soils:

- 1,2-Dichlorobenzene (USEPA Dioxin Precursor Chemical associated with the formation of dioxin)
- 1,4-Dichlorobenzene (USEPA Dioxin Precursor Chemical associated with the formation of dioxin)

*(BBA000016, BBA000018, BBD000007)*

# ***Reichhold Site, Elizabeth Discharge Routes***

- Prior to 1966, untreated wastewater from the phthalic and maleic anhydride processes discharged directly to the Arthur Kill by way of Moses Creek.
- Prior to 1968, untreated process wastewaters were discharged directly to the Arthur Kill through the City of Elizabeth's Bayway Ave. sewer.
- The Site is located within a CSO district that bypasses to the Arthur Kill.

# ***Reichhold Site, Elizabeth Candidate PRPs***

- Reichhold, Inc.

# ***Exxon Mobil – Bayonne Site***



**250 East 22<sup>nd</sup> Street and 1 Avenue J, Bayonne, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***Exxon Mobil – Bayonne Site Background***

- Site is a 288-acre property located in Bayonne, NJ adjacent to the Kill Van Kull. Platty Kill Creek borders the Site, and discharges to the Kill Van Kull.
- Operations at the Site have historically centered on petroleum-related manufacturing and refinery operations. The Site also has been utilized as a bulk fuel and chemical storage facility.
- Site operations commenced in 1887. Refining operations were discontinued in 1972. Storage, blending and packaging operations, and an oil additives manufacturing operation continue to-date.
- Various affiliates, divisions and subsidiaries of Exxon Mobil Corp., International Matex Tank Terminals (IMTT), Central Railroad of New Jersey and Others have operated at the Site.

*(BBA000009, BBA000010, BBA000011, BBA000014, BBG000002, BBG000005, BBA000018, CBD000001, CCG000041)*

# ***Exxon Mobil – Bayonne Site Background (cont'd)***

- Facility processes included petroleum refining, distillation of crude oil into various fractions, blending and shipping of lubricating oils, on-site laboratories, manufacture of asphalt and production of wax.
- Finished products include(d):
  - Aliphatic and aromatic solvents
  - Methyl ethyl ketone
  - Asphalt
  - Naphtha
  - Aviation gas
  - Oil additives
  - DDT
  - Petroleum additives
  - Distillate fuels
  - Refined wax
  - Fuel, lube and process oils

*(BBA000010, BBA000010, BBA000013, BBA000014, CCH000004, CDB000001, BBG000005, BBA000282, BBC000010-12, BBC000015-17)*

# ***Exxon Mobil – Bayonne Site Background (cont'd)***

- Hazardous substances formulated, generated, stored, used, produced and/or disposed of at the Bayonne Site include:

*(BBA000006, BBA000011, BBA000014, BBG000004, BBG000005, CCH000004)*

•1,2-dichlorobenzene	•Chlorobenzene	•Naphthalene
•1,4-dichlorobenzene	•Chromium	•Nickel
•4,4'-DDD	•Chrysene	•N-nitrosodiphenylamine
•4,4'-DDT	•Copper	•PCB wastes
•Arsenic	•Dibenz(a,h)anthracene	•Petroleum Hydrocarbons
•Benzene	•Dieldrin	•Pyrene
•Benzo(a)anthracene	•Indeno(1,2,3-cd)pyrene	•Thallium
•Benzo(a)pyrene	•Methyl ethyl ketone	•Toluene
•Benzo(b,k)fluoranthene	•Lead	•Xylenes
•Beryllium	•Naphtha	•Zinc



# ***Exxon Mobil – Bayonne Site Regulatory Status***

- 1972: Refining and wax manufacturing ceased. Blending, packaging and oil additives manufacturing continued.
- 1990: Groundwater investigation performed.
- 1991: Administrative Consent Order issued by NJDEP to Exxon Mobil for the Site.
- 1993: Majority of Site sold by Exxon Mobil to IMTT. Investigation performed of Platty Kill Creek sediments.
- 1995: Soil investigation performed.
- 1999: Site remediation has been ongoing.
- 2000: Exxon Mobil and neighbor Bayonne Industries, Inc., agree to jointly conduct remediation of Platty Kill Creek.

*(BBA000006, BBA000011, BBA000017, BBG000001, BBG000004, BBG000005, CCA000041, CCA000042, CCA000043)*

# ***Exxon Mobil – Bayonne Site Discharge Routes***

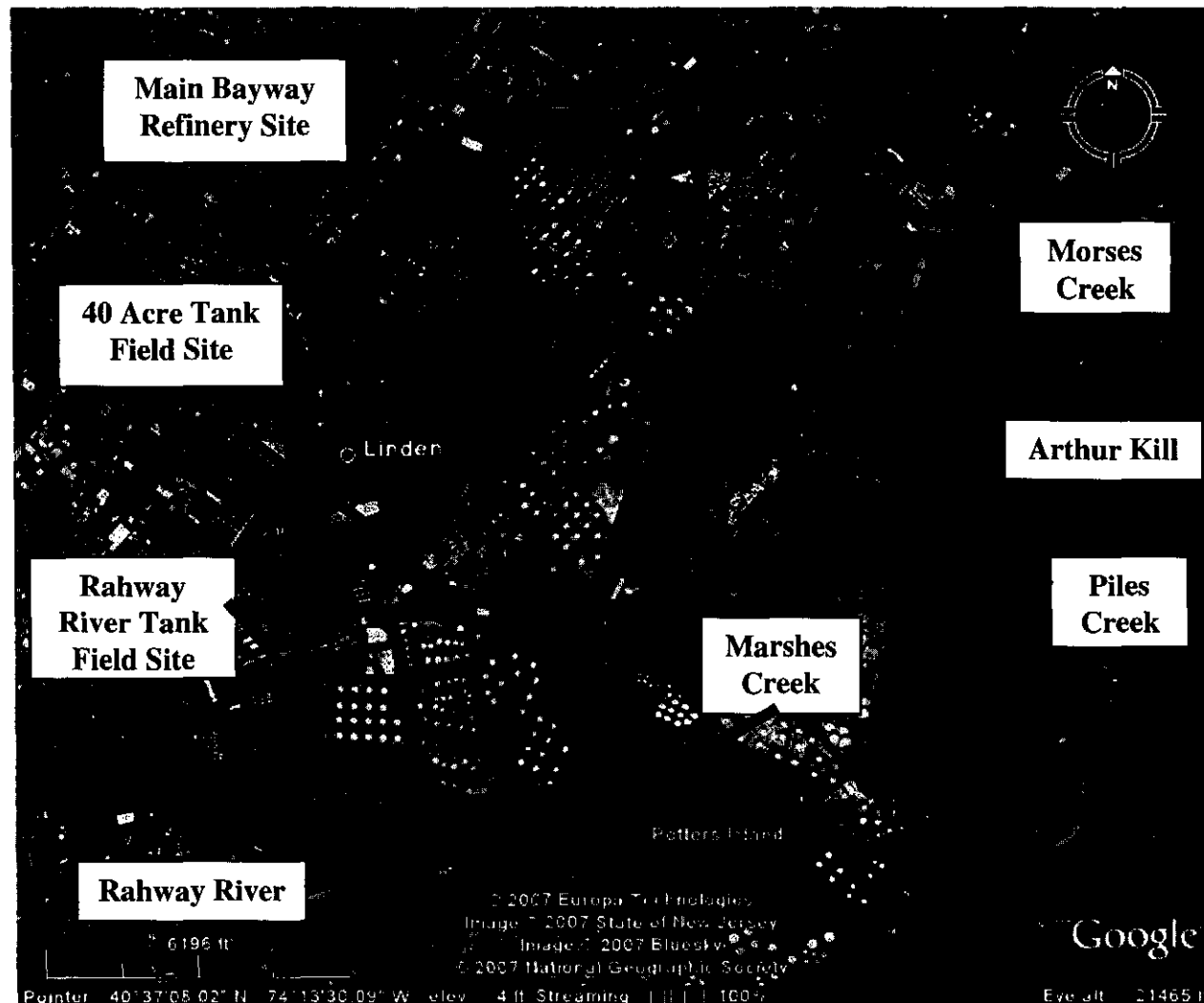
- The Site's Eastside Wastewater Treatment Plant discharges treated process wastewater to the confluence of Kill Van Kull and Upper New York Bay. Historic treatment capacity and upgrades are unknown.
- Numerous historic spills have occurred from the pier area to Kill Van Kull, including substances such as waste oil, fuels, asphalt and solvents. At least 88 spills have been documented since 1970; spill history prior to 1970 is not identified.
- Numerous spills from barges at the facility to Kill Van Kull are documented.
- Acid discharges to Kill Van Kull from acid neutralization pit and scrubber unit have occurred historically.
- Collapsed embankment and heavy site contamination have resulted in discharges to Platty Kill Creek.

*(BBA000011, BBA000019, BBE000008, BBG000001, CCG000034, CBC000004)*

# ***Exxon Mobil – Bayonne Site Candidate PRPs***

- Exxon Mobil Corporation  
(as successor to Exxon Corporation)

# ***Exxon Mobil – Bayway Site***



**1400 Park Avenue, Linden, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***Exxon Mobil – Bayway Site Background***

- 1300-acre Site located in Linden, NJ. The Site is bordered by the Arthur Kill with other waterways, including Moses Creek, Piles Creek, West Brook, and Marshes Creek receiving drainage from the Site.
- Site operations commenced in 1907 and continue to present.
- Operations have consisted of petroleum refining, product packaging and marketing, and chemical processing (including pesticides and lubricants manufacturing).
- Various affiliates, divisions and subsidiaries of Exxon Mobil Corp., ConocoPhillips, Infineum and others have operated at the Site.

*(BBG000002, BBH000001, BBH000005, BBH000006, BBH000057, BBJ000002)*

# ***Exxon Mobil – Bayway Site Background (cont'd)***

- Site operations include: multiple refinery cracking and processing units, chemical plants, tank farms, trucking, pipelines, loading docks, barge areas, wastewater collection and treatment, and solid waste and dredge disposal areas.
- Finished products have included:
  - Additives
  - Chemical agents
  - DDT
  - Fuel oils
  - Gasoline
  - Jet fuel
  - Insecticides
  - Lindane
  - Lubricating oils
  - Medicinal products
  - Naphtha
  - Solvents

(BBG000003, BBJ000002, BBH000057, BBK000006, BBK000009-1, 1BBH000005, BBH000006, BBH000021, BBH000057)

# ***Exxon Mobil – Bayway Site Background (cont'd)***

- The following hazardous substances were formulated, generated, stored, used, produced and/or disposed of by Exxon Mobil at the Bayway Refinery Site:

*(BBH000013, BBH000017, BBH000057)*

- |                |                         |
|----------------|-------------------------|
| •4,4'-DDD      | •Mercury                |
| •4,4'-DDE      | •MTBE                   |
| •4,4'-DDT      | •PCBs                   |
| •Alpha-BHC     | •Pentachlorophenol      |
| •BTEX          | •Petroleum hydrocarbons |
| •Chlorobenzene | •Phenol                 |
| •Heavy metals  | •Vinyl chloride         |

# ***Exxon Mobil – Bayway Site Regulatory Status***

- 1991: Exxon Mobil entered into ACO with NJDEP to address environmental conditions and certain areas of environmental concern.
- 1992: Exxon Mobil sells majority of Site property to Bayway Refining Co., subsidiary of Tosco Corporation. Exxon Chemical operations are not sold and continue at the Site.
- 1992: Investigation conducted of facility Landfarm area.
- 1994: Remedial Investigation conducted.
- 1995-1997: Investigation conducted of facility sewers.
- 1997: Groundwater investigation conducted.
- 1999: Additional remedial investigation conducted.
- 2001: Tosco is acquired by predecessor of ConocoPhillips.



# ***Exxon Mobil – Bayway Site Discharge Routes***

- Numerous unpermitted discharges of hazardous substances have been documented to have occurred at the Site, dating back to 1960. Discharge history prior to 1960 not documented.
- Facility Wastewater Treatment Plant discharges treated process wastewater to Moses Creek.
- Sewers from the facility's East Side Chemical Plant are routed into the East Retention Pond. The East Retention Pond discharges to the West Separator sewer, but has a bypass to Moses Creek.
- The facility Storm Water Diversion Tank has a bypass to Moses Creek.
- Sewers from the Central Refinery and West Refinery areas are routed to the solid waste treatment facility and equalization lagoons.

(BBE000003, BBH000001, BBH000004, BBH000005, BBH000008, BBH000057)

# ***Exxon Mobil – Bayway Site Discharge Routes***

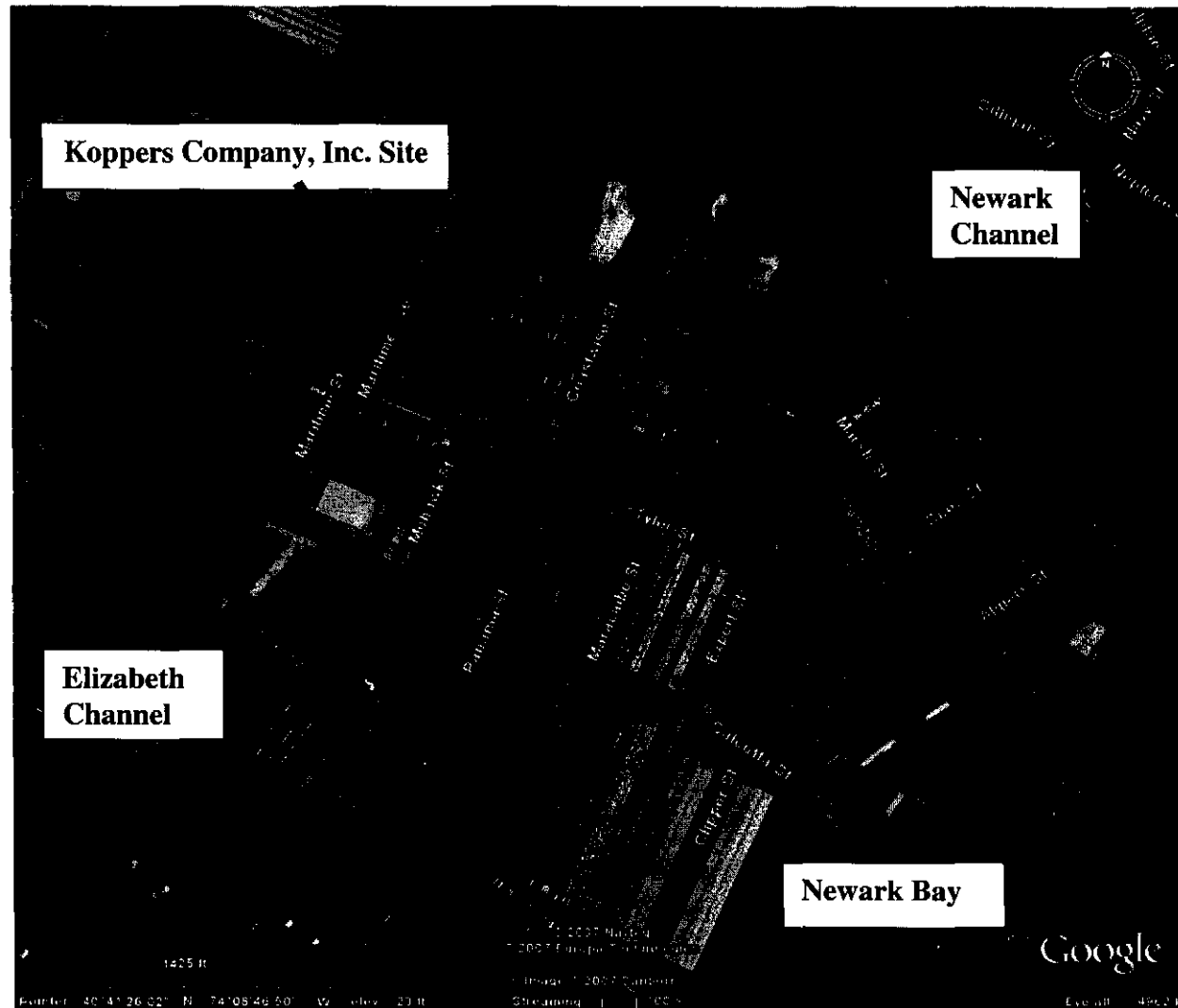
- Sampling and analyses of Site sediments located within the Morses Creek waterway within the Site have identified the following on-site sediment contaminants:

- |                        |               |
|------------------------|---------------|
| •2-Dimethylnaphthalene | •Lead         |
| •4,4'-DDE              | •Mercury      |
| •4,4'-DDT              | •Naphthalene  |
| •Anthracene            | •Nickel       |
| •Arsenic               | •Phenanthrene |
| •Benzo(a)pyrene (BaP)  | •Pyrene       |
| •Chrysene              | •Silver       |
| •Copper                | •TPHC         |
| •Fluoranthene          | •Zinc         |

## ***Exxon Mobil – Bayway Site Candidate PRPs***

- Exxon Mobil Corporation
- Exxon Mobil Chemical Company
- ConocoPhillips
- Infineum USA L.P. and Infineum USA II L.P.
- Infineum USA, Incorporated
- Shell Oil Company

# ***Koppers Company, Port Newark Site***



**Maritime and Tyler Streets, Newark, New Jersey**  
**SITE OUTLINE IS AN APPROXIMATION**

# ***Koppers Company, Port Newark Site Background***

- Approximately eight-acre site located between the Port Newark and Elizabeth Channels in Newark, NJ.
- The City of Newark subleased the Site to the Port Authority of NYNJ, which sub-subleased it to Koppers.
- Wood treating operations were conducted at the Site from 1940 (with American Lumber and Treating Company) to 1991 (when Site operations were closed by Beazer East, Inc. and Koppers Industries, Inc.)

*(BAA000029, BAB000037, BAB000053)*

# ***Koppers Company, Port Newark Site Background (cont'd)***

- From 1940 to 1991, the property was used to produce treated wood for such uses as utility poles, foundation pillars, bulkheads and industrial piers.
- Hazardous Substances identified with facility operations included:
  - Creosote
  - Chromated Copper Arsenate (CCA)
  - NCX (trademarked name for substance consisting of formaldehyde, phosphoric acid and melamine)
  - Various Petroleum Products

*(BAA000010, BAB000037, BAB000053, BAB000082, BAC000004)*

## ***Koppers Company, Port Newark Site Background (cont'd)***

- Subsequent to the operations being sold to Beazer in 1989, Koppers began remediation of the Site in accordance with ECRA.
- Operations ceased in 1991.
- Remedial activities are on-going.

# ***Koppers Company, Port Newark Site Regulatory Status***

- Free product creosote, a Dense Non-Aqueous Phase Liquid (DNAPL) was detected in both on- and off-site water bearing zones. A DNAPL extraction system has been installed and DNAPL continues to be recovered.
- Groundwater beneath the Site generally flows north toward the Port Newark Channel.

(BAC000003, CAA000002)



# ***Koppers Company, Port Newark Site Site Contamination***

Site soil sampling has identified the following contaminants present in site soils:

- Pentachlorophenol to 3.7 ppm (USEPA Class I Organic Chemical associated with the formation of dioxin)
- 2-Chlorophenol to 46 ppm (USEPA Dioxin Precursor Chemical associated with the formation of dioxin)
- 1,2,4-Trichlorobenzene to 2.5 ppm (USEPA Class III Organic Chemical associated with the formation of dioxin)
- 1,4-Dichlorobenzene to 2.1 ppm (USEPA Dioxin Precursor Chemical associated with the formation of dioxin)

Site contaminants, as well as 2,3,7,8-TCDD, were also identified in Port Newark Channel sediments

*(BAB000065, BAB000078)*

# ***Koppers Company, Port Newark Site Discharge Routes***

- Prior to 1972, sanitary sewage from Port Newark was discharged into a combined storm-sanitary sewer system that discharged directly into Newark Bay and/or the Port Newark Channel.
- Site process wastes were discharged to the sanitary sewer.
- In 1972, an NJDEP memo indicated that all facilities in the Port Authority Terminal discharge any and all effluents to the storm sewers, and thence to Newark Bay.

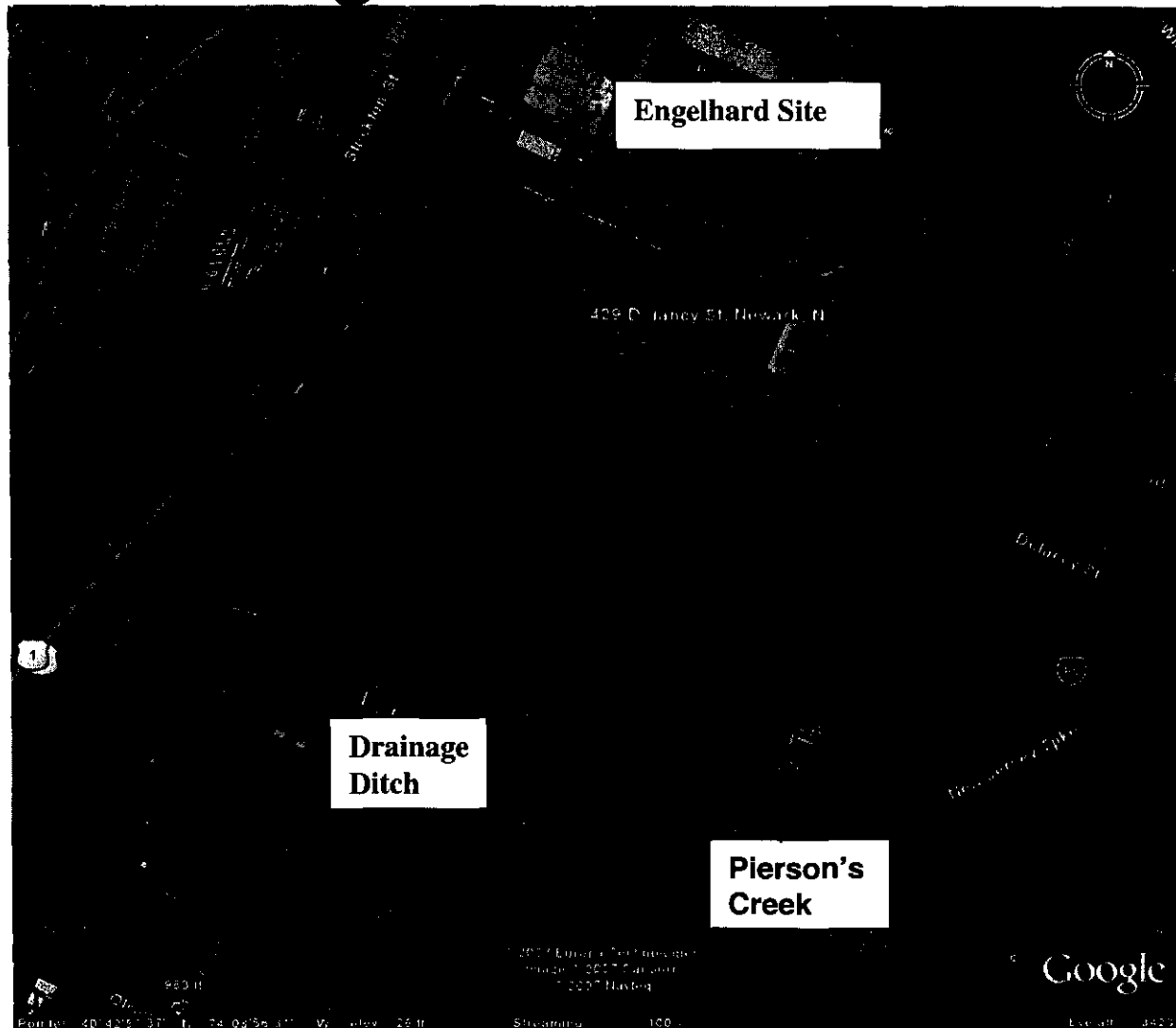
*(BAA000011, BAB000046, BAC000004)*

# ***Koppers Company, Port Newark Site Candidate PRPs***

- Beazer East, Inc. (fka Koppers Company, Inc.)
- Koppers Inc. (fka Koppers Industries, Inc.)

*(BAC000002, CAA000001, CAA000012, CAA000013, CAA000016)*

# Engelhard Site



**429 Delancy Street, Newark, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***Engelhard Site Background***

- The Site consists of approximately 40 acres in Newark, NJ. Pierson's Creek runs through the Site before discharging to the Port Newark Channel of Newark Bay downstream of the Site.
- Engelhard operated at the Site from 1952 through 1987. Site buildings were demolished in 1996, and Engelhard sold the property in 1998.
- The Site is currently vacant.

*(BAA000001, BAA000002, BAA000003, BAA000007, BAA000020)*

# ***Engelhard Site Background (cont'd)***

Engelhard conducted refining / manufacturing operations at the Site, consisting of:

- Precious metals recovery and refining operations, including platinum, gold and silver
- Catalyst manufacturing operations (that utilized those metals) for the chemical, petroleum, pharmaceutical and automotive industries

(BAA000001)

# ***Engelhard Site Background (cont'd)***

- Among the hazardous substances and materials formulated, utilized, handled or disposed at the site:

(BAA000001, BAA000022)

•Acetic acid	•Copper	•Nickel
•Aluminum sulfate	•Copper nitrate	•Nickel sulfate
•Ammonia	•Copper sulfate	•Nitric acid
•Ammonium acetate	•Diesel fuel	•PCBs
•Ammonium chloride	•Ethylene diamine	•Potassium hydroxide
•Ammonium chloride solution	•Formic acid	•Silver
•Ammonium hydroxide	•Fuel oil	•Sodium cyanide
•Ammonium sulfamate	•Fuel oil no. 4	•Sodium hydroxide
•Anhydrous ammonia	•Granular caustic	•Sulfuric acid
•Antimony Trioxide	•Hydrochloric acid	•Thorium nitrate
•Caustic 50%	•Hydrogen sulfide	•Waste caustic-sulfide
•Chlorine	•Miscellaneous acids	•Zinc

# ***Engelhard Site Regulatory Status***

- Extensive soil, sediment and groundwater sampling, as well as targeted soil and sediment remediation, were conducted on the Site between 1987 and 1995 on behalf of Engelhard under ISRA.
- Numerous hazardous substances have been identified in soil and groundwater on-site.
- Selected soil and sediment locations were remediated by excavation and/or capping.
- Groundwater Classification Exemption Areas (CEAs) were approved in 1995/96 for metals and volatile organic compounds.

(BAA000002, BAA000003, BAA000006, BAA000007, BAA000020)



# ***Engelhard Site Discharge Routes***

- Historically, waste solutions from the precious metal refining operations were reported to be routed from the facility to an on-Site ditch which discharged to the storm water ditch located to the south of the facility.
- A ditch that flowed to Pierson's Creek allegedly received spill runoff and effluent from the aluminum chloride production area, including hydrochloric acid, copper and aluminum solutions.
- In 1975, there was an overflow of 3,000 gallons of effluent from a chemical sewer that drained to Pierson's Creek.
- 1976 Notices of Violation noted that a tank containing alkaline solutions discharged to surface waters; water containing alumina solids and dilute ammonia solutions and sodium carbonate solutions discharged to the ground; caustic solution discharged to the drainage ditch; and sulfuric acid discharged to the drainage ditch.

(BAA000001, BAA000021, BAB000005)

# ***Engelhard Site Discharge Routes (cont'd)***

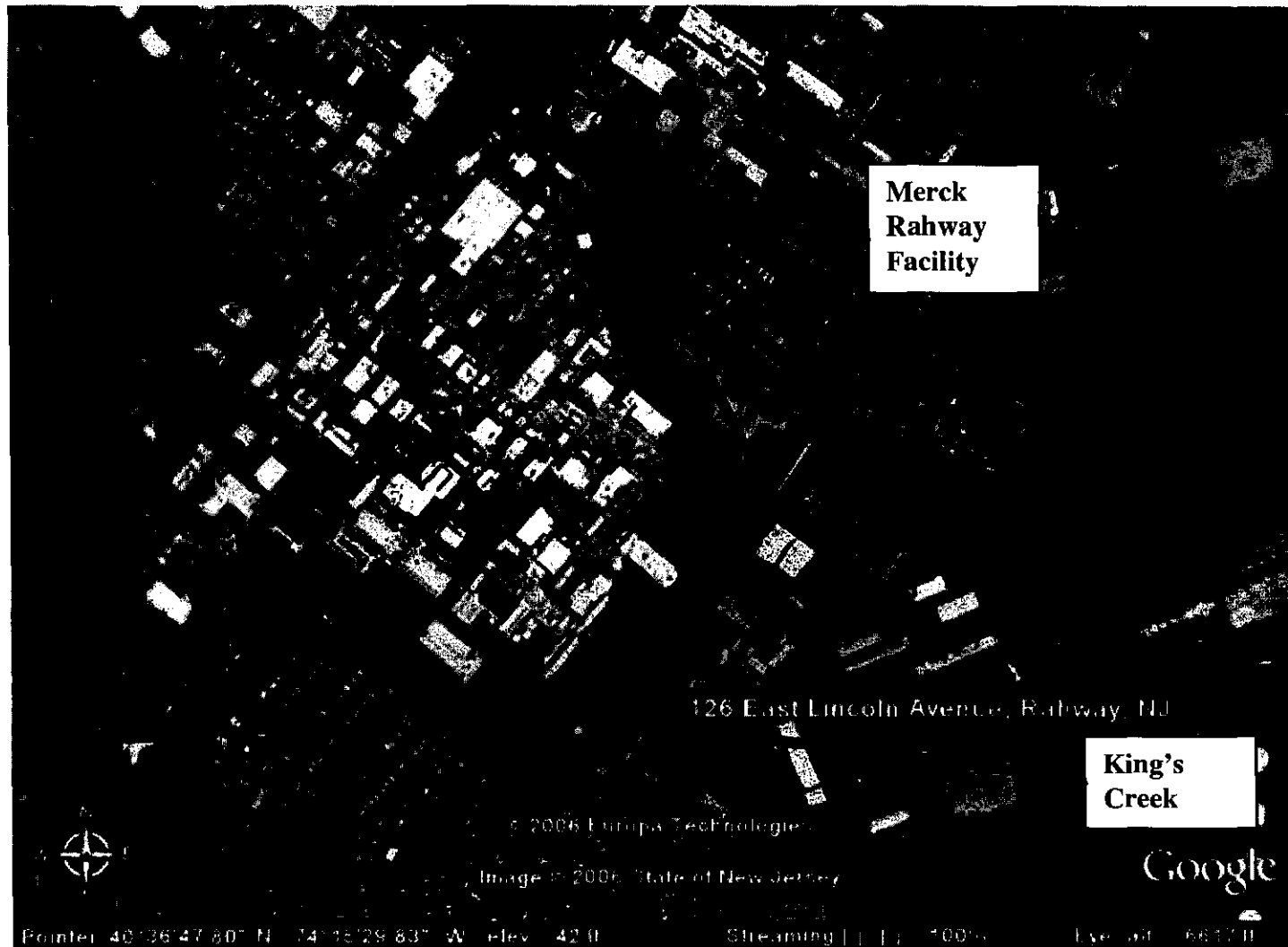
- A 1980 report noted that precipitated metals from the boiler house liquid waste were flowing to Pierson's Creek from a stormwater runoff pipe rather than to the Delancy St sewer. This report further noted subsurface leaching of acidic groundwater into the drainage ditch.
- In 1995 under ISRA, approximately 1,100 cubic yards of sediments contaminated with "priority pollutant metals" and petroleum hydrocarbon were dredged from the southern drainage ditch at the Site.
- In 1995 under ISRA, approximately 500 cubic yards of sediments contaminated with metals (primarily silver) from within Pierson's Creek were excavated and disposed of off-Site.

*(BAA000030, BAA000002)*

# ***Engelhard Site Candidate PRP***

- PRP: BASF Catalysts LLC

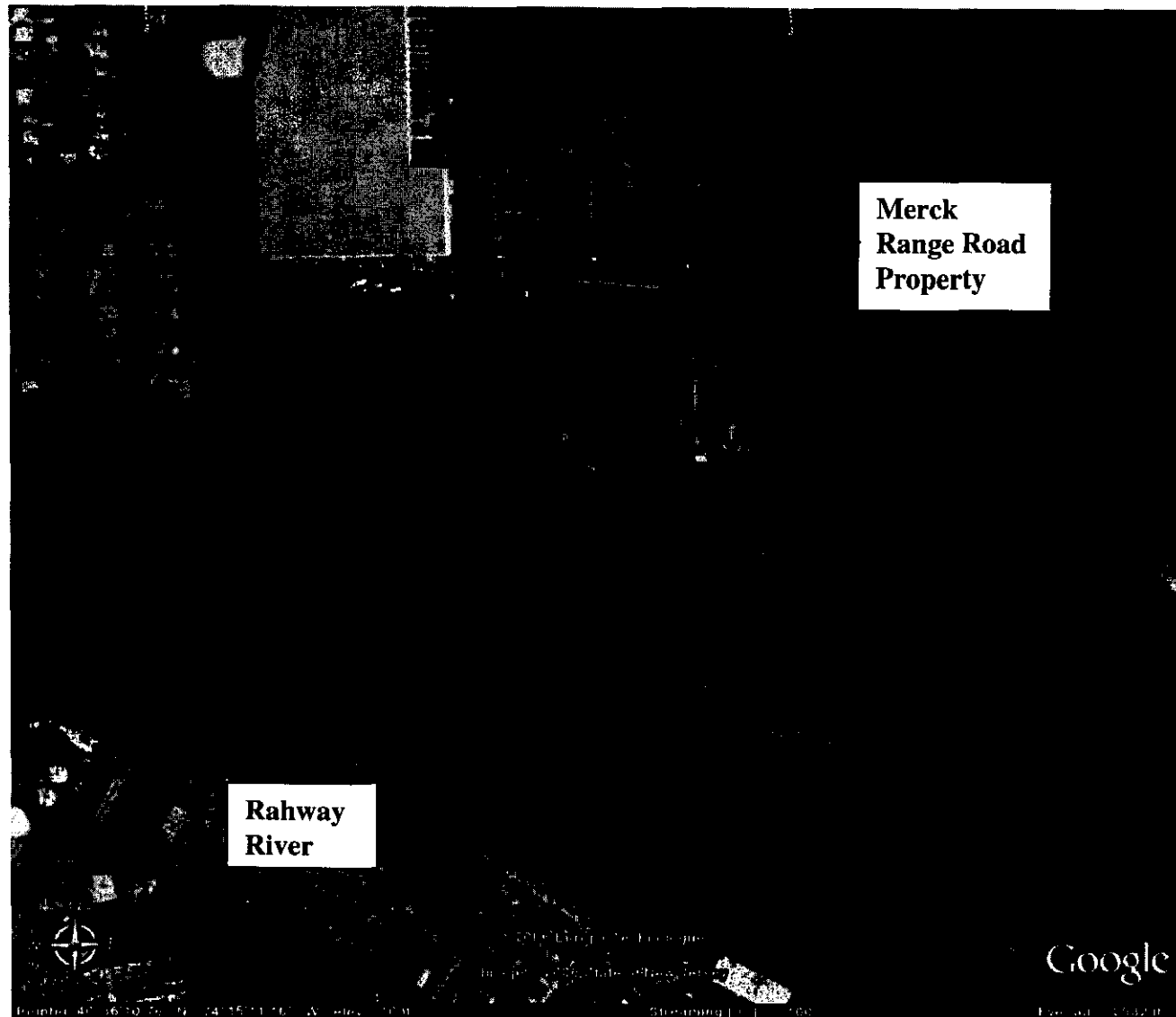
# ***Merck & Co. Sites***



**Rahway Facility: 126 East Lincoln Avenue, Rahway, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***Merck & Co. Sites***



**Range Road Property: 1959 Lower Road Rear, Linden, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***Merck & Co. Sites Background***

The Site is comprised of two related operating locations:

- The “Merck Rahway Facility”, consists of more than 100 buildings on 210 acres. Kings Creek, a tributary of the Rahway River, runs through the Site.
- Merck’s “Range Road Property” consists of 21.5 acres, 6 of which are landfill. This Site is located directly on the Rahway River.

# ***Merck & Co. Sites Rahway Facility Background***

- Operated by Merck from 1903 to the present for the manufacture of various products, including animal health care products, pharmaceuticals for human use, and agricultural pesticides.
- Products reportedly included 2,4,5-TCP, dichlorobenzenes, and DDT, among others.
- Several products, as well as related hazardous substances identified in site soil and groundwater, are identified by USEPA as associated with the formation of dioxins.

*(BAC000001, BAC000002, BAB000001, BAJ000001, BAD000001, BAE000001-10, DAB000001, DAB000002, DAB000003, DAB000005, DAB000006, DAB000007, DAB000065, DAB000066, DAA000001, DAA000008, DAA000010, DAA000013, DAA000014, DAA000017)*

# ***Merck & Co. Sites***

## ***Rahway Facility Background***

- Site operations include(d) various laboratories, manufacturing units, machine shops, warehouses and bulk storage facilities.
- Waste disposal operations included on-site landfills and an incinerator. The Site also discharged to the Linden-Roselle Sewerage Authority (LRSA).
- The Site has six permitted stormwater outfalls that discharge to Kings Creek, and one that discharges to the City of Rahway storm sewer system. These outfalls reportedly drain the production, research and development, and administrative areas.

(BAC000002, BAH9000002)



# ***Merck & Co. Sites***

## ***Rahway Facility Site Contamination***

Site soil is contaminated with a variety of hazardous substances associated with Site operations:

- Pesticides, including DDT and isomers of benzene hexachloride, including lindane (a Class II pesticide chemical regulated by USEPA)
- PCBs
- Volatile organic compounds, including chlorobenzene (a dioxin precursor chemical regulated by USEPA)
- Semi-volatile organic compounds, including 2,4-dichlorophenol (a Class I organic chemical associated with dioxin), isomers of dichlorobenzene (dioxin precursor chemicals regulated by USEPA), and 1,2,4-trichlorobenzene (a Class III organic chemical associated with dioxin)
- Metals

(BAC000001, BAC000002 )

# ***Merck & Co. Sites***

## ***Rahway Facility Discharge Routes***

- Kings Creek flows through the Site in a southeasterly direction, discharging to the Rahway River approximately 1 mile south of the Merck Rahway Facility. The Rahway River discharges to the Arthur Kill approximately 3 miles from this point.
- In 1988, Merck notified NJDEP that two discharge events to Kings Creek occurred, due to pump failure, from the Rahway Facility “process water treatment plant.” One incident related to a 10,000-gallon spill and the other incident related to a 500 gallon spill.

(BAC000001, BAC000004, BAG000098)

# ***Merck & Co. Sites Rahway Facility Discharge Routes***

Kings Creek has been impacted by hazardous substances discharged from the Site. Hazardous substances detected in sediment include, among others:

- chlorobenzene
- DDD
- DDE
- DDT
- 1,2 Dichlorobenzene
- alpha benzene hexachloride
- gamma benzene hexachloride (lindane)
- PCBs

(BAC000002, BAK000004)

# ***Merck & Co. Sites***

## ***Range Road Property Background***

- The Site reportedly operated as a landfill from 1947 to 1971, and received various industrial, construction and demolition waste materials from the Merck Rahway facility only.
- Landfill height is reported to be approximately 22 feet above the surrounding topography.
- The landfill is located in wetlands adjacent to the Rahway River. The Rahway River discharges to the Arthur Kill approximately 3 miles downstream of this location.

(CAA000001)

# ***Merck & Co. Sites***

## ***Range Road Site Contamination***

Hazardous substances associated with operations at the Rahway facility have been identified in groundwater at the Range Road Site:

- benzene
- phenols
- alpha benzene hexachloride
- Benzaldehyde (a Class III organic chemical associated with dioxin)

(CAA000001, CAA000002)

# ***Merck & Co. Sites***

## ***Range Road Discharge Routes***

Hazardous substances associated with Site operations have been detected in surface water and sediments in local streams discharging from the Site to the Rahway River:

- dichlorobenzene isomers
- DDD
- DDE
- DDT
- beta benzene hexachloride
- gamma benzene hexachloride (lindane)
- PCBs
- Metals
- Semi-volatile organics

(CAA000001)

# ***Merck & Co. Sites***

## ***Candidate PRP***

- Merck & Co., Inc.

**Dow Warehouse Packaging Portion**

**Ingham Avenue**

**E. 2nd Street**

**Former Mobay Site (later purchased by Norton)**

**Dow Waterfront Portion "Waterfront" Portion**

© 2006 Europa Technologies  
Image © 2006 Satellite.com

Google

Freeport, TX

Printer: 48°38'49.75" N, 94°07'31.49" W

StreetView

100'

**SITE OUTLINE IS AN APPROXIMATION**



# ***Dow Chemical Site Background***

- Eight-acre Site adjacent to Kill Van Kull in Bayonne, NJ, with second non-contiguous parcel to the north.
- Site operations commenced in 1953 and continue today.
- A brief chronology of owners / operators at the Site:

1953 – 1967	Lehigh Tank Terminal / Dow
1968 – 1969	Dow (operating as the “Distribution Center of Bayonne”)
1969 – 1995	Bayonne Terminals, Inc. (aka “Rollins Terminals, Inc.”) / Dow (through 1983)
1995 – 2003	DC Plastics, Inc. (portion)
1999 – Present	Duraport Realty One, LLC (Waterfront Portion)
2000 – Present	Duraport Realty Two, LLC (Warehouse Packaging Portion)

(BBA000001-3, 6, 27, 33-36 )

# ***Dow Chemical Site Background (cont'd)***

- Site served as a bulk liquid shipment operation with a 3,250,000 gallon storage capacity.
- Lehigh Tank Terminal was joint venture between Dow and Lehigh Warehouse and Transportation Co.
- The vessel “SS Marine Dow-Chem” berthed at the Site; used for liquid chemical transport along East Coast.
- Pipelines used for transfer of product to vessels.

*(BBA000002, BBA000003)*

# ***Dow Chemical Site Background (cont'd)***

- Site sold to Bayonne Terminals, Inc. in 1969. Rollins Terminals, Inc. functioned as Site operator, and Dow remained as a tenant through 1983.
- The following substances were stored / utilized at the Site:

*(CAA000002, BAA000002, BAA000004, BAA000006, BAA000014, BAA000031, BAA000035, BBA000003)*

- |                       |                        |
|-----------------------|------------------------|
| •Caustic Soda         | •Trichloroethylene     |
| •Ethylene Glycol      | •Glycerine             |
| •Propylene Glycol     | •White Mineral Oil USP |
| •Chlorinated Solvents | •Morpholine            |
| •Chloroform           | •Methylene Chloride    |
| •Perchloroethylene    | •Styrene               |

## ***Dow Chemical Site Background (cont'd)***

- Dow also operated locally at an additional Site: 2 Commerce Street, Bayonne (the “Powell Duffryn Site”).
- Dow leased terminal space at this Site from 1980 through 1999 and used it for the manufacture of anti-freeze.
- Similar substances were stored at both Sites utilized by Dow, including methylene chloride, glycols and solvents.

# ***Dow Chemical Site Site Contamination***

**Lehigh Terminals Site groundwater / soil contamination:**

- Chloromethane
- Methylene Chloride
- Trichloroethylene (TCE)
- Perchloroethylene (PCE)
- Benzyl alcohol
- 2,4-D

**Powell Duffryn Site groundwater / soil contamination:**

- Methylene Chloride
- Chlorobenzene
- Trichloroethylene

*(BAA000033, BAA000010, DAB000003)*

# ***Dow Chemical Site Discharge Routes***

- Rollins Terminals was charged criminally in US District Court for 15 counts of unlawful discharges of acid refuse and alkaline refuse to the Kill Van Kull, occurring between 2/13/70 and 11/6/70.
- In January of 1987, approximately 500,000 gallons of caustic soda spilled from a ruptured storage tank at the Rollins Site. The spilled materials were observed to be entering a storm sewer and discharging to the Kill Van Kull.
- NJDEP issued a notice of violation (NOV) to Bayonne Terminals in December 1989 for an unpermitted discharge to surface waters for the release of untreated (raw) fatty acids.

(CCE000001, CCE000002, BAA000036, BAA000024, BAA000032 )

# ***Dow Chemical Site Discharge Routes (cont'd)***

- In 1989, Powell Duffryn was fined \$4.2 million by the U.S. District Court and the Third Circuit U.S. Court of Appeals for violations of its NJPDES permits between the years of 1977 through 1988.
- It was reported that Powell Duffryn discharged excessive quantities of oil, grease, phenol, methylene chloride, and other chemicals from its terminal.
- It was estimated that approximately 66 million gallons of industrial chemicals discharged into the Kill Van Kull as a result of Powell Duffryn's negligent operations.

(CCG000036, DAB000001, DAB000002, EAA000001, EAA000002)

# ***Dow Chemical Site Candidate PRPs***

- Dow Chemical Company
- Duraport Realty One, LLC
- Duraport Realty Two, LLC
- Matlack Systems, Inc.

(For Bayonne Terminals, Inc.)



# *CasChem Site, Bayonne*



**35 and 40 Avenue A, Bayonne, New Jersey**

**SITE OUTLINE IS AN APPROXIMATION**

# ***CasChem Site, Bayonne Background***

- Approximately eight-acre site located adjacent to Newark Bay in Bayonne, NJ.
- The Baker Castor Oil Company commenced Site operations in 1910, and Site operations continue today under a corporate successor, Rutherford Chemicals LLC.
- The site owner/operator was known by the following names based on corporate successorship research findings:
  - The Baker Castor Oil Company (1910 – 1975)
  - Industrial Chemicals Division of NL Industries (1975 – 1981)
  - CasChem (1981 – 2003)
  - CasChem, A Division of Rutherford Chemicals LLC (Circa 2003)
  - Rutherford Chemicals LLC (2003 to present)

*(BAK000027, BAK000044, BBM000001, BBM000002, BBM000003, BBM000004, BBM000005)*

## ***CasChem Site, Bayonne Background (cont'd)***

- From 1910 to the present, the property has been used for the manufacture, refining, storage, and distribution of castor beans and castor oil.
- CasChem produced approximately 200 different castor oil-based specialty chemicals and urethanes at the Site. The chemicals produced included polymerized oils, dehydrated oils, and fatty acids.

*(BAK000027 )*

# ***CasChem Site, Bayonne Background (cont'd)***

Numerous Hazardous Substances are identified as being utilized on Site:

- Various Acids
- Solvents
- Heavy Metals
- Semi-volatile compounds

These compounds include:

- Maleic Anhydride (USEPA Class III Organic Chemical associated with the formation of dioxin)
- Chlorobenzene (USEPA Dioxin Precursor Chemical associated with the formation of dioxin)

(BAK000001, BAK000014, BAK000027, BAK000030, BAK000031, BAK000032)

# ***CasChem Site, Bayonne Background (cont'd)***

- Process wastewaters receive(d) on-site treatment prior to discharge to the Bayonne Combined Sewer System.
- On-site treatment upgrades over time:
  - 1989: *“oil/water separation and some settling” was proposed to be upgraded to “pH control, better oil/water separation, solvent stripping.”*
- CasChem was noted to be non-compliant with effluent limitations for the hazardous substance 1,1-Dichloroethane during the reporting year 1991-1992

(BAK0000027, BAK0000029, KLL025396)

# ***CasChem Site, Bayonne***

## ***Regulatory Status***

- Xylene USTs decommissioned 1980s.
- USEPA, FBI and Customs Service launched surprise Site inspection April 10, 1990. Resulted in \$1M settlement for improper storage of hazardous wastes.
- Site is undergoing ISRA per 2003 sale to Rutherford Chemicals LLC.

*(BAK000014, BAK000058, BAK000027, BAK000057, BAK0000058 BBM000025, BBM000026, BBM000027, BBM000028, BBM000036, BBM000037, BBM000056, BBM000057, BBM000058 )*

# ***CasChem Site, Bayonne***

## ***Discharge Routes***

- Prior to the 1980s, Site wastewater was treated only with lime prior to discharge to the City of Bayonne combined sewer system.
- Prior to September 1954, sewage from the City of Bayonne – including this Site - was discharged to Newark Bay.

(BAK000027, BAH000053, KLL025396)

# ***CasChem Site, Bayonne Discharge Routes (cont'd)***

- The Site is located within a CSO district that bypasses to Newark Bay. After 1954, discharges from the Site were bypassed to Newark Bay during combined sewer overflows.
- The Site storm sewers discharge to Newark Bay. Numerous non-permitted discharges, spills, and non-compliant discharges are reported during the 1980s and 90s.

(BAK000004 – 17, 19, 21-28, 34-36, 38, 40, 42)



# ***CasChem Site, Bayonne***

## ***Candidate PRPs***

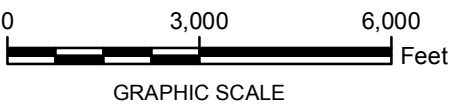
- **Rutherford Chemicals LLC**  
(successor to Baker Castor Oil Company)
- **NL Industries, Inc.**  
(successor to Baker Castor Oil Company)





- LEGEND:
- CANDIDATE PRPs PRESENTED TO USEPA MAY 2007
  - CANDIDATE PRPs PRESENTED TO USEPA DECEMBER 2004
  - GNL RECIPIENT AUGUST 2006
  - CANDIDATE PRPs PRESENTED TO USEPA OCTOBER 2005
  - GNL RECIPIENT AUGUST 2006
  - CANDIDATE PRPs PRESENTED TO USEPA OCTOBER 2006

- NOTES:
- HORIZONTAL DATUM: NEW JERSEY STATE PLANE COORDINATE SYSTEM, NAD83.
  - ALL LOCATIONS ARE APPROXIMATE; LOCATIONS ARE AS INTERPRETED FROM PUBLICLY AVAILABLE DOCUMENTS.
  - AERIAL PHOTO DATED JULY 2002 (INTRASEARCH, ENGLEWOOD, CO).



CANDIDATE PRPs IN THE NEWARK BAY  
STUDY AREA AS OF MAY 2007



# ADDITIONAL SITES AND CANDIDATE PRPS FOR THE NEWARK BAY STUDY AREA

## INDEX OF EVIDENCE

### *Phelps Dodge Specialty Copper Products Company*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	DGE000001	11/19/06	Press release: <i>Freeport-McMoRan Copper &amp; Gold to Acquire Phelps Dodge, Creating the World's Largest Publicly Traded Copper Company</i>
2	DGE000002	01/08/06	Freeport McMoRan Copper & Gold Overview and Fact Sheet retrieved from Hoovers
3	DGE000003	01/08/06	Deal Fact Sheet retrieved from company website, <a href="http://www.fcx.com">www.fcx.com</a>
4	DGE000004		Joint Industrial Waste Survey Interstate Sanitation Commission New Jersey State Department of Health Report of Phelps Dodge Copper Products Corporation, Elizabeth, NJ
5	DGE000005	08/22/79	Letter to City of Elizabeth from JMEU requesting assistance in pressuring Phelps Dodge to discontinue its repeated violations
6	DGE000006	10/12/79	JMEU internal memo Re: Phelps Dodge
7	DGE000007	01/08/80	JMEU letter to City of Elizabeth Re: Phelps Dodge
8	DGE000008	11/04/80	JMEU internal memo Re: Phelps Dodge
9	DGE000009	03/23/81	JMEU letter to Phelps Dodge Re: samples of plant effluent
10	DGE000010	09/30/85	JMEU letter to Phelps Dodge Re: Notice of Violation
11	DGE000011	05/05/87	JMEU letter to Phelps Dodge Re: Notice of Violation
12	DGE000012	04/24/87	JMEU letter to Phelps Dodge Re: Notice of Violation
13	DGE000013	06/18/87	JMEU letter to Phelps Dodge Re: Notice of Violation
14	DGE000014	10/14/87	JMEU letter to Phelps Dodge Re: Notice of Violation
15	DGE000015	11/03/87	JMEU letter to Phelps Dodge Re: Notice of Violation
16	DGE000016	10/25/88	JMEU letter to Phelps Dodge Re: Notice of Violation
17	DGE000017	11/1988	Dye Tracing House Sewers Location of Non-Compliance Sources of Copper, Oil/Grease, pH Phelps Dodge Corporation Facility Elizabeth, NJ prepared for Phelps Dodge Corporation Bayway &

TAB NO.	BATES NO.	DATE	DESCRIPTION
			South Front Street Elizabeth, New Jersey 07207 prepared by Richard D. Galli, P.E., P.C. 260 Main Street Northport, NY 11768
18	DGE000018	03/15/89	JMEU letter to Phelps Dodge Re: Notice of Violation
19	DGE000019	09/28/89	JMEU letter to Phelps Dodge Re: Notice of Violation
20	DGE000020	12/19/89	JMEU letter to Phelps Dodge Re: Notice of Violation
21	DGE000021	07/23/90	JMEU letter to Phelps Dodge Re: Notice of Violation
22	DGE000022	01/07/91	JMEU memorandum to Phelps Dodge File Re: Noncompliance history
23	DGE000023	03/31/86	JMEU letter to Phelps Dodge Re: Notice of Violation
24	DGE000024	06/04/86	Phelps Dodge Response to JMEU Re: Exceedance of copper limits
25	DGE000025	08/17/99	JMEU letter to Phelps Dodge Re: Notice of Violation
26	DGE000026	02/20/70	Phelps Dodge Letter to NJ Department of Health Re: Sanitary waste discharge to JMEU
27	DGE000027	06/08/84	Phelps Dodge Copper Products Company 720 South Front Street, Elizabeth, New Jersey Site Evaluation Submission for Environmental Cleanup Responsibility Act prepared by Princeton Aqua Science
28	DGE000028	06/30/99	Phelps Dodge Pollution Prevention Plan Summary
29	DGE000029	06/27/94	Phelps Dodge Pollution Prevention Plan Summary for 1993
30	DGE000030	08/1975	Report of spill
31	DGE000031	1978	Phelps Dodge Selected Substance Report
32	DGE000032	04/02/79	Princeton Aqua Science data analysis
33	DGE000033	03/20/85	ECRA Action Tracking Summary Sheet
34	DGE000034	03/17/82	Princeton Aqua Science data analysis
35	DGE000035	05/07/84	Pitney, Hardin, Kipp & Szuch letter to NJDEP ECRA office Re : General Information Submission
36	DGE000036	06/08/84	Pitney, Hardin, Kipp & Szuch letter to NJDEP Bureau of Industrial Site Evaluation, Division of Waste Management re: General Information Submission revisions
37	DGE000037	06/22/84	Phelps Dodge Copper Products Company Affidavit for Negative Declaration prepared by Princeton Aqua Science
38	DGE000038	07/17/84	NJDEP letter to Phelps Dodge Copper Products Co. Re: Negative declaration approval
39	DGE000039	1981	Status Sheet for Non-Regulated Generators
40	DGE000040	12/13/95	NJDEP Division of Field Operations Bureau: Metro Generator Inspection Report Facility Information for Phelps Dodge
41	DGE000041	01/04/66	Raritan Bay Project Meeting Re: Industrial Waste

TAB NO.	BATES NO.	DATE	DESCRIPTION
			Survey of Phelps Dodge Copper Products Corporation
42	DGE000042	10/20/66	Letter from Mayor of Elizabeth to Interstate Sanitation Commission Re: Industrial Wastes-Elizabethport and Bayway Sections of Elizabeth
43	DGE000043	02/14/67	Letter from F. Ulrich to Phelps Dodge Re: Additional information request
44	DGE000044	02/21/67	Letter from Phelps Dodge to Interstate Sanitation Commission Re: Reply to additional information request
45	DGE000045	01/07/70	Letter from J. Cofman to Phelps Dodge Re: December 18, 1969 plant visit
46	DGE000046	02/20/70	Letter from Phelps Dodge to NJ Department of Health Re: Discharge of sanitary waste
47	DGE000047	04/22/92	JMEUC Non-Domestic Wastewater Discharge Permit Application for Phelps Dodge
48	DGE000048	1965	Corps of Engineers Map No. 50: Port Facilities at Port of New York Arthur Kill-N.Y. and N.J. and Newark Bay and Elizabeth River-N.J.
49	DGE000049	03/19/07	News Release: <i>Freeport-McMoRan Copper &amp; Gold Inc. Completes Acquisition of Phelps Dodge Corp. Creating World's Largest Publicly Traded Copper Company</i> , <a href="http://www.fcx.com">www.fcx.com</a>
50	DGE000050	03/21/07	Phelps Dodge Company History, <a href="http://www.fundinguniverse.com">www.fundinguniverse.com</a>
51	DGE000052	03/28/07	Phelps Dodge Company Profile, <a href="http://www.investorguide.com">www.investorguide.com</a>
52	DGE000053	03/20/07	<i>Freeport-McMoRan Copper &amp; Gold to Acquire Phelps Dodge, Creating the World's Largest Publicly Traded Copper Company</i> , <a href="http://www.fcx.com">www.fcx.com</a>
53	DGE000054	03/22/07	<i>Copper King W.A. Clark</i> , <a href="http://www.thecopperkingmansion.com">www.thecopperkingmansion.com</a>
54	DGE000056	04/01/86	JMEUC Industrial Pretreatment Inspection Report
55	DGE000057	04/02/91	Letter from Vaida & Manfreda to JMEUC Re: The City of East Orange, et al. v. Phelps Dodge Industries, Inc., Docket No. UNN-L-871-91
56	DGE000058	03/18/85	JMEUC Industrial Sewer Connection/Non- Domestic Wastewater Discharge Permit Application
57	DGE000059	10/01/85	Joint Meeting Industrial Inspection Report
58	DGE000060	02/10/82	Letter from JMEUC to Phelps Dodge Re: January 1982 Effluent Sampling
59	BAB000053	11/28/83	Joint Meeting letter to City of Elizabeth re: Sewer Problems
60	BAB000135	00/00/92	NJDEP Fact Sheet for NJPDES Permit to Discharge for Joint Meeting and City of Elizabeth

TAB NO.	BATES NO.	DATE	DESCRIPTION
61	BAB000162	06/65	The Interstate Sanitation Commission and the City of Elizabeth – A Case Study in Intergovernmental Enforcement (incomplete)
62	BAG000002	08/27/99	Letter from NJDEP to Hon. Robert Menendez
63	BAJ000001	02/28/00	Letter from NJDEP to Hon Mayor J. Christian Bollwage of Elizabeth enclosing NJPDES General Permit #NJ0105023 and NJPDES Individual Permit NJ0108782 for City of Elizabeth.
64	BAL000001	08/1981	City of Elizabeth, Combined Sewer Overflow Pollution Abatement Program, Volume II, draft report, prepared by Clinton Bogert Associates. (excerpts)
65	BAL000005	01/25/99	City of Elizabeth CSO Solids/Floatables Control Facilities Preliminary Design Report prepared by Killam Associates (excerpts)
66	BBH000001		State of Delaware, Department of State: Division of Corporations website Re: Phelps Dodge Copper Products Corporation
67	BBH000002		State of Delaware, Department of State: Division of Corporations website Re: Phelps Dodge Industries, Inc.
68	BBH000003		NYS Department of State, Division of Corporations website Re: Phelps Dodge Corporation
69	BBH000004		Answer.com Phelps Dodge Company History
70	BBH000005	05/01/84	Company Briefs: Phelps Dodge Corp., The New York Times
71	BBH000006	01/25/85	<i>Phelps Dodge Plans A Pretax Charge</i> , The New York Times
72	BBH000009	12/31/66	<i>Phelps Dodge Elects</i> , The New York Time
73	BBH000010	12/21/67	<i>Top Positions Filled By Phelps Dodge Unit</i> , The New York Times
74	BBH000017	01/19/99	<i>Stock Quote 2 – No Title</i> , The New York Times
75	BBH000018	04/13/07	SEC Form 15 for Phelps Dodge Corporation
76	BBH000020	02/27/07	SEC Form 10-K for Phelps Dodge Corporation
77	BBH000022	1950	NJ State Industrial Directory for 1950 (excerpts)
78	BBH000023	1960	NJ State Industrial Directory for 1960 (excerpts)
79	BBH000024	1965	NJ State Industrial Directory for 1965 (excerpts)
80	BBH000025	1970	NJ State Industrial Directory for 1970 (excerpts)
81	BBH000026	1975	NJ State Industrial Directory for 1975 (excerpts)
82	BBH000027	1980	NJ State Industrial Directory for 1980 (excerpts)
83	BBH000028	03/22/94	SEC Form 10-K for Phelps Dodge Corporation
84	BBH000029	03/17/97	SEC Form 10-K for Phelps Dodge Corporation
85	BBH000033	03/07/06	SEC 8-K For 3/4/06 EX-2 for International Wire Group Inc

TAB NO.	BATES NO.	DATE	DESCRIPTION
86	BBH000034	03/07/06	News Release: <i>Phelps Dodge to Sell High Performance Conductor Business</i>
87	BBH000035	03/31/06	News Release: <i>Phelps Dodge Corp. Completes Sale of High Performance Conductor Business</i>

## *Reichhold Chemicals, Inc., Elizabeth*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BBA000001	8/24/84	USEPA Preliminary Assessment (Incomplete)
2	BBA000002	12/7/84	RCRA Hazardous Waste Permit Application, Parts A and B
3	BBA000003	2/1/85	DPCC/DCR Plans for Reichhold Chemicals, Inc. (excerpts)
4	BBA000004	8/85	Results of Chemical Analysis of an RCI Waste Water Treatment Plant Effluent Sample Collected 18 July 1985 by CH2MHill Personnel
5	BBA000005	8/31/87	Initial Notice Regarding Reichhold Chemicals' Elizabeth, New Jersey Plant-General Information Submission (GIS)
6	BBA000006	9/4/87	DIC Holdings Corp. Acquisition of Reichhold Chemicals, Inc. ECRA Case No. 87-747 – Application for Administrative Consent Order
7	BBA000007	9/15/87	York Laboratories Report No. 20870-518 prepared for CH2MHill, project: Reichhold Chemical
8	BBA000008	9/29/87	Letter from Reichhold to NJDEP re: Signed ACO, Letter of Credit, and Certified Board Resolution (Incomplete)
9	BBA000009	11/11/87	ECRA-II Notice Submission – Site Evaluation Submission (SES)
10	BBA000010	12/1/88	Letter from Reichhold to NJDEP re: Discharge monitoring report for 8/1/88 thru 10/31/88
11	BBA000011	10/25/89	Initial Notice – General Information Submission (GIS)
12	BBA000012	11/10/89	Initial Notice – Site Evaluation Submission (SES)
13	BBA000013	1/18/90	D. Lamond, NUS Corp. – Project Notes re: Meeting with site representatives prior to site recon.
14	BBA000014	7/22/91	NJDEP Memorandum re: Request for BME/BHWE Joint Closure Certification Inspection of Reichhold

			Chemicals, Inc.
15	BBA000016	5/96	Response to NJDEP August 30, 1995 Comment Letter
16	BBA000017	9/3/98	Final Report Remedial Investigation/Remedial Action Report, Remedial Action Workplan prepared by CH2MHill (Excerpts)
17	BBA000018	8/31/05	Revised Baseline Ecological Evaluation prepared by CH2MHill
18	BBA000019	2/23/06	General Information Notice (GIN)
19	BBA000020	3/3/06	Letter from Hunton & Williams LLP to Swiss North American Properties re: Notice of ongoing environmental remediation
20	BBA000021	3/6/06	Remediation in Progress Waiver Application: Case No. 20060076
21	BBA000022	3/28/06	Letter from NJDEP to Reichhold re: Approval of Remediation in Progress Waiver Application
22	BBA000023	5/06	Soil and Groundwater Monitoring Report prepared by CH2MHill
23	BBA000024	08/1991	NJDEP memo to file re: Joint Closure Certification Inspection
24	BBB000001	1962 & 1963	Analytical results from samples collected by NJ State Dept. of Health and Interstate Sanitation Commission
25	BBB000002	8/21/63	Analytical Survey Report for Reichhold Chemicals prepared by Roy F. Weston, Inc.
26	BBB000003	12/23/63	NJ State Dept. of Health Notice to Corporation Trust Co. as agent for Reichhold Chemicals
27	BBB000004	12/19/63	NJ State Dept. of Health 11/12/63 Inspection Report
28	BBB000005	9/6/66	NJ State Dept. of Health 8/25/66 Inspection Memo
29	BBB000006	10/20/66	Letter from Mayor of Elizabeth to Interstate Sanitation Commission re: Industrial Wastes – Elizabethport and Bayway Sections of Elizabeth
30	BBB000007	8/1/68	Memo from F. Ulrich to G. Cowherd re: Reichhold plant visit on 7/30/68
31	BBB000008	6/20/72	Letter from C. Pike to Reichhold Chemicals re: Certification of Water Pollution Abatement Facility
32	BBB000009	7/25/86	NJDEP Memorandum re: draft SIU Permit NJ0061100
33	BBB000010	3/14/88	NJPDES/SIU Permit No. NJ0061166
34	BBB000012	11/6/90	Letter from CH2MHill to NJDEP re: York Laboratories analytical results of 8/23/90
35	BBB000013	1/29/93	Letter from NJDEP to Reichhold re: NJPDES/SIU Permit Termination
36	BBC000001	8/22/89	Letter from CH2MHill to Joint Meeting of Essex and Union Counties transmitting revised DPCC Plan and DCR Plan, August 1989
37	BBD000001	3/12/02	JCNnetwork On-line "Dainippon Ink & Chemicals Executed the Agreements to Sell Reichhold's



			Formulated Adhesives Business"
38	BBD000002	3/31/05	Dainippon Ink & Chemicals On-line Annual Report 2005
39	BBD000003	9/12/05	Dainippon Ink & Chemicals On-line Press Release "DIC Announces Sale of Shares in Reichhold via Management Buyout and Revised Results Forecast"
40	BBD000004	9/13/05	Research Triangle Park On-line "Reichhold execs buying RTP firm"
41	BBD000005	3/31/06	Dainippon Ink & Chemicals On-line Annual Report 2006
42	BBD000006	11/3/06	Hoovers On-line Reichhold, Inc.
43	BBD000007	11/3/06	NJ Transportation Planning Authority/NJ Institute of Technology On-line "NJIT/NJTPA Brownfield Redevelopment Study Summary of Case Study – Reichhold Chemical, njtpa.njit.edu/planning/brownfields/casestudies/documents_casestudies/ExSumreichhold.pdf
44			Blank
45	BBD000009	2/9/07	Dunn & Bradstreet On-line Kestrel I Acquisition Corp., www.dnb.com
46	BBD000010		Reichhold On-line Company History, www.reichhold.com
47	BBE000001	5/49	<i>Agricultural Insecticides and Fungicides-1948</i> , NJ Agricultural Experiment Station (Excerpts)
48	BBE000002	5/50	<i>Agricultural Insecticides and Fungicides-1949</i> , NJ Agricultural Experiment Station (Excerpts)
49	BBE000003	7/51	<i>Agricultural Insecticides and Fungicides-1950</i> , NJ Agricultural Experiment Station (Excerpts)
50	BBE000004	3/54	<i>Agricultural Insecticides and Fungicides-1953</i> , NJ Agricultural Experiment Station (Excerpts)
51	BBE000005		<i>New Jersey Industrial Directory 1952-53</i> , Hudson Dispatch
52	BBE000006	1950	1950 Sanborn Map
53	BAG000002	8/27/99	Letter from NJDEP to Hon. Robert Menendez
54	BAJ000001	2/28/00	Letter from NJDEP to Hon Mayor J. Christian Bollwage of Elizabeth enclosing NJPDES General Permit #NJ0105023 and NJPDES Individual Permit NJ0108782 for City of Elizabeth.
55	BAL000001	8/81	City of Elizabeth, Combined Sewer Overflow Pollution Abatement Program, Volume II, draft report, prepared by Clinton Bogert Associates. (excerpts)
56	BAL000005	1/25/99	City of Elizabeth CSO Solids/Floatables Control Facilities Preliminary Design Report prepared by Killam Associates (excerpts)
57	BAB000135	00/00/92	NJDEP Fact Sheet for NJPDES Permit to Discharge for Joint Meeting and City of Elizabeth

58	BAB000162	6/65	The Interstate Sanitation Commission and the City of Elizabeth – A Case Study in Intergovernmental Enforcement (incomplete)
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## *Exxon Mobil Corporation, Bayonne*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BAF000001	01/1979	Hudson County Utilities Authority: 201 Wastewater Facilities Plan, Planning Area II, Bayonne, Volume I Regional Inventory, prepared by Malcolm Pirnie.
2	BBA000006	07/25/95	Non-Aqueous Phase Liquid Interim Remedial Measure Field Investigation Report of General Tank Field, No. 3 Tank Field, Exxon Mobil Chemical Plant (Utilities Area) Lube Oil Area at Bayonne Plant, prepared by Geraghty & Miller, Inc.
3	BBA000007	06/04/96	Responses to NJDEP's comments on the NAPL IRM report and Addendum to the NAPL IRM investigation – The Platty Kill Canal area.
4	BBA000009	08/15/86	Spill Prevention Control and Countermeasure Plan Discharge Prevention, Containment and Countermeasure Plan and Discharge Cleanup and Removal Plan for Exxon Mobil Company with attached Engineers Certification. (dated 11/9/89)
5	BBA000010	01/19/93	Draft Remedial Investigation Work Plan, Exxon Mobil Company, USA, Bayonne Plant, Bayonne, New Jersey, for Exxon Mobil Company, USA, by Geraghty & Miller, Inc.
6	BBA000011	11/1994	Site History Report, Exxon Mobil Company, USA, Bayonne Plant, Bayonne, New Jersey, by Geraghty & Miller, Inc. Volume 1 of 3.
7	BBA000012	10/04/90	Letter from Bayonne Citizens for Clean Air to NJDEP regarding concerns about contamination of a drainage ditch to New York Bay.
8	BBA000013	01/1993	Administrative Consent Order Site History Deliverable Items, Exxon Mobil Company, USA – Bayonne Plant, compiled by Geraghty & Miller, Inc.
9	BBA000014	12/14/94	Volume 1 of 2 Text, Figures & Tables Non-Aqueous Phase Liquid Interim Remedial Measures Investigation re: Exxon Mobil Bayonne Plant - Platty Kill Canal Area."

			prepared by Dan Raviv Associates, Inc. (DRAI)
10	BBA000015	07/25/95	Non Aqueous Phase Interim Remedial Measures Investigation –Pier 6 Bayonne, New Jersey, prepared by Dan Raviv Associates, Inc. (DRAI).
11	BBA000017	12/28/90	Exxon Mobil “Discharge Investigation and Corrective Action Report.”, for Bayonne plant, prepared by Dan Raviv, Associates, Inc. (DRAI).
12	BBA000018	11/18/90	Letter from Exxon Mobil to NJDEP re: Confirmation of discharge event by Exxon Mobil. Encloses lists of persons/agencies contacted, substance discharged, actions taken, etc.
13	BBA000019	01/1995	Exxon Mobil Company, USA – Site Remediation Team, Sewer Evaluation Results Assessment – as of December, 1994 for Bayonne Plant Site, Bayonne, New Jersey, by LACHEL & Associates, Inc.
14	BBA000282	03/26/53	Certificate of Board of Health issued by City of Linden, NJ attesting that Esso Standard produced a product called FLIT – DDT.
15	BBC000003	12/15/06	Hoover’s overview summary for Exxon Mobil Corporation
16	BBC000004	12/15/06	Exxon Mobil historical account obtained from the Exxon Mobil website: <a href="http://www.ExxonMobil.com">www.ExxonMobil.com</a>
17	BBC000005	2005	Exxon Mobil Corporation Form 10K report submitted to the United States Securities and Exchange Commission (SEC)
18	BBC000008	02/1/07	Media report from the Associated Press: “Exxon Mobil Reports \$39.5B Annual Profit”
19	BBC000010	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial # 75064330 – Filing date: 2/27/96. Owner – Exxon Mobil Corporation
20	BBC000011	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial #71583646 –Filing date: 8/18/49. Owner – Esso Standard Oil Company
21	BBC000012	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial #71358340-Filing date: 11/17/34. Owner – Stanco Incorporated
22	BBC000015	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial#71205239 – Filing date: 11/13/24. Owner – Standard Oil Company (New Jersey)
23	BBC000016	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial #71205238 – Filing date: 11/13/24. Owner – Standard Oil Company (New Jersey)
24	BBC000017	02/6/07	U.S. Patent and Trademark Office record for “FLIT” Serial #71181872 – Filing date: 6/11/23. Owner – Standard Oil Company (New Jersey)
25	BBE000008	04/93-	NJPDES Permit Renewal Application Direct Discharge

		07/95	to Surface Waters Permit # NJ0002089 – Permittee IMTT/Co-Permittee - Exxon Mobil, with attachments.
26	BBF000002	04/02/93	EPA Notification of Regulated Waste Activity Exxon Mobil Bayonne Lubricants Plant
27	BBG000001	03/1998	Results of Field Investigation for Free Oil Recovery Delineation and Basic Design with accompanying three volumes, prepared by Parsons Engineering Science
28	BBG000002	08/22/01	Remedial Investigation Addendum Report, Sampling Clay-Till Platty Kill Canal, Bayonne, New Jersey, prepared by Bluestone Environmental for Bayonne Industries and Exxon Mobil Mobil.
29	BBG000004	10/15/99	NJDEP letter to Exxon Mobil Company re: Free Oil Recovery Interim Remedial Measures for Exxon Mobil Bayonne Terminal
30	BBG000005	12/1995	Phase IA Remedial Investigation Bayonne Plant Volume I of III, prepared by Geraghty & Miller Inc.
31	BBG000011	04/25/97	Correspondence from Exxon Mobil to NJDEP re: Quarterly progress report for January 1 thru March 31, 1997 (attached)
32	CBC000001	12/20/04	Civil Action: <u>NJDEP v Exxon Mobil Corp.</u> Brief of Defendant, Exxon Mobil Corporation in Opposition to Plaintiffs' Motion to Remand. Filed in US District Court: Civil Action No. 04-4897 (DMC) consolidated with No. 04-4898 (DMC).
33	CBC000002	12/15/04	Declaration of Cornelius Boyle re: Civil Action: <u>NJDEP v. Exxon Mobil Corp.</u> filed in US District Court: Civil Action No. 04-4897 (DMC) consolidated with No. 04-4898 (DMC).
34	CBC000003	12/16/04	Declaration of Robert E. Fairchild re: NJDEP v. Exxon Mobil filed in US District Court: Civil Action No. 04-4897 (DMC) consolidated with No. 04-4898 (DMC).
35	CBC000004	12/20/04	Declaration of Mark S. Germann re: US District Court lawsuit: NJDEP v. Exxon Mobil Mobil; US District Court: Civil Action No. 04-4897 (DMC) consolidated with No. 04-4898 (DMC).
36	CBD000001	1954	Publication entitled: "Made in New Jersey – The Industrial Story of a State" by Arthur T. Cunningham, Rutgers University Press.
37	CCA000018	01/31/01	Letter from Bayonne Industries to NJDEP re: Fourth Qtr. Status Report.
38	CCA000023	11/1995	ENSR report: Platty Kill Canal Interim Remedial Action Report Volume I.
39	CCA000036	03/14/03	NJDEP letter to Rusty Walker of International Matex Tank Terminals.
40	CCA000041	02/14/02	NJDEP internal Memo from Mary Hrenda to Mike Kenney re: Remedial Investigation Addendum report -

			Bayonne Industries.
41	CCA000042	05/04/01	NJDEP memo to Mike Kenney re: Review of Revised Hot Spot Definition and Bayonne Industries
42	CCA000043	11/04/00	NJDEP memo to Mike Kenney re: Remedial Investigation for Sampling Clay-Till.
43	CCA000047	03/5/98	BI Inc. Platty Kill Canal Phase II Sediment Investigation Report.
44	CCG000032	09/26/01	Bayonne Industries letter to NJDEP re: Bayonne Industries Technical Modifications to the Platty Kill Canal, Hot Spot Delineation
45	CCG000034	12/30/02	Letter from NJDEP to IMTT-Bayonne re: draft permit No. NJ0002089 for discharge of treated groundwater from the PKC.
46	CCG000041	04/20/06	Letter from NJDEP to Wolff & Samson re: applicability of ISRA to sale of stock in the IMTT corporation, with related attachments.
47	CCH000004	02/2000	Remedial Action Selection Report - Platty Kill Canal Prepared for Bayonne Industries, Inc. and Exxon Mobil by Bluestone Environmental Services.
48	BBF000060	04/05/07	Wikipedia On-Line information re: Standard Oil
49	BBF000061	04/05/07	Wikipedia On-Line information re: Exxon Mobil
50	BBF000062	04/05/07	Corporate Watch On-Line information re: ExxonMobil
51	BBF000067	05/13/07	SEC Form 10-K Annual Filing for Exxon Mobil Corp. year ending 12/31/1999 (excerpts)
52	BBF000068	05/13/07	SEC Form S-4 for Exxon Corp. dated 4/5/99 (excerpts)
53	BBF000069	05/13/07	SEC Form 10-K Annual Filing for Exxon Mobil Corp. year ending 12/31/06 (excerpts)

## *Exxon Mobil Corporation Bayway, Linden*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BBA000282	03/26/53	Certificate of Board of Health of the City of Linden
2	BBC000001	12/20/04	Civil Action NJDEP vs. Exxon Mobil Corporation & AGC Chemicals Americas, Inc. f/k/a/ ICI Americas, Inc.
3	BBC000003	12/16/04	Civil Action NJDEP vs. Exxon Mobil Corp. & AGC Chemicals Americas, Inc. f/k/a ICI Americas, Inc. - Declaration of Malcolm A. Weiss
4	BBC000004	12/15/04	Civil Action NJDEP vs. Exxon Mobil Corp. & AGC Chemicals Americas, Inc. f/k/a ICI Americas, Inc. -

			Declaration of Cornelius Boyle
5	BBC000005	12/16/04	Civil Action NJDEP v. Exxon Mobil Corp. & AGC Chemicals Americas, Inc. f/k/a ICI Americas, Inc. – Declaration of Robert E. Fairchild
6	BBC000007	12/20/04	Civil Action NJDEP vs. Exxon Mobil Corp. & AGC Chemicals Americas, Inc. f/k/a ICI Americas, Inc. – Declaration of Jennifer Debow Borzi
7	BBC000008	12/20/04	Civil Action NJDEP vs. Exxon Mobil Corp. & AGC Chemicals Americas, Inc. f/k/a ICI Americas, Inc. Declaration of Len C. Racioppi
8	BBE000003	07/1962	Industrial Waste Survey – NJ State Health Department & Interstate Sanitation Commission – Report of Esso Standard Oil, Bayway Refinery New Jersey
9	BBF000001	12/27/06	Dun & Bradstreet Information Report re: Bayway Refining
10	BBF000005	12/27/06	Hoovers OnLine information re: Conoco Phillips
11	BBF000006	12/27/06	Hoovers OnLine information re: Overview of Conoco Phillips
12	BBF000007	12/27/06	Dun & Bradstreet Business Information Report re: Conoco Phillips Company
13	BBF000019	12/27/06	Dun & Bradstreet Business Information Report re: Infineum USA
14	BBF000020	12/20/06	NJ State Business Gateway Service re: Infineum USA
15	BBF000021	12/20/06	NJ State Business Gateway Service re: Infineum USA
16	BBF000023		History of Infineum from web site
17	BBF000031		A Brief History Of Major Oil Companies In The Gulf Region
18	BBF000032	03/06/07	U.S. Patent & Trademark Office with re: Paratac
19	BBF000033	03/06/07	U.S. Patent & Trademark Office with re: Vistanex
20	BBF000034	03/06/07	U.S. Patent & Trademark Office with re: Vistanex
21	BBF000035	03/06/07	U.S. Patent & Trademark Office with re: Toxigram
22	BBF000036	03/06/07	U.S. Patent & Trademark Office with re: Parapoid
23	BBF000037	03/06/07	U.S. Patent & Trademark Office with re: Flexon
24	BBF000038	03/06/07	U.S. Patent & Trademark Office with re: Vistanex
25	BBF000039	03/06/07	U.S. Patent & Trademark Office with re: Paranox
26	BBF000040	03/06/07	U.S. Patent & Trademark Office with re: Paratac
27	BBF000041	03/06/07	U.S. Patent & Trademark Office with re: Paratac
28	BBF000042	03/06/07	U.S. Patent & Trademark Office with re: Paranox
29	BBF000043	03/06/07	U.S. Patent & Trademark Office with re: Vistone
30	BBF000044	03/06/07	U.S. Patent & Trademark Office with re: Vistone
31	BBF000045	03/06/07	U.S. Patent & Trademark Office with re: Paraflow
32	BBF000046	1993	US Securities & Exchange Commission Form 10-K

			re: Tosco
33	BBF000047	1999	US Securities & Exchange Commission Form 10-K re: Tosco
34	BBF000048	2001	US Securities & Exchange Commission Form 8-K re: Tosco
35	BBF000049	02/5/01	On-Line info regarding Phillips Buys Tosco for \$9 Billion
36	BBF000050	09/18/01	Federal Trade Commission news release re: Phillips-Tosco
37	BBF000051	2006	ConocoPhillips 2006 Annual Report
38	BBF000052	03/20/07	ConocoPhillips web site information
39	BBF000053	03/09/01	" <i>Phillips schedules Tosco meeting</i> "-The Oklahoma City Journal Record
40	BBF000054	03/21/07	US Patent & Trademark Office re: Conoco
41	BBF000055	03/21/07	Nevada Secretary of State Corporation re: Tosco Corporation
42	BBF000056	03/21/07	Shell Group web page
43	BBF000057	03/21/07	Hoovers web page re: Shell Oil Company
44	BBF000058	03/21/07	Dun & Bradstreet Business Information Report re: Shell Oil
45	BBF000059	2006	Royal Dutch Shell Annual Review and Summary Financial Statements
46	BBF000060	04/05/07	Wikipedia On-Line information re: Standard Oil
47	BBF000061	04/05/07	Wikipedia On-Line information re: Exxon Mobil
48	BBF000062	04/05/07	Corporate Watch On-Line information re: Exxon Mobil
49	BBG000002	1951	Chemical Trade Names And Commercial Synonyms
50	BBG000003	1954	Brochure "Made In New Jersey" – The Industrial Story of a State
51	BBG000004	05/1956	Pesticides – 1955 Economic Poisons
52	BBH000001	8/29/85	Letter from Exxon to NJDEP re: Exxon Bayway Refinery Landfarm Closure Plan
53	BBH000004	07/1994	Critical Instream Waste Concentration For The Wastewater Treatment Plant Discharge At The Bayway Refinery
54	BBH000005	04/16/98	Annual Summary Report 1997 Rahway River Tank Field Separators Bayway Refinery by CA Rich Consultants Inc
55	BBH000006	10/01/99	NJDEP letter to Tosco Refining re: Final Renewal of NJPDES Permit
56	BBH000057	04/30/04	Bayway Refinery Phase 2 Remedial Investigation Report, prepared by TRC Ravix Associates
57	BBH000008	05/02/01	Supplemental Remedial Investigation Report re: Bayway Refinery
58	BBH000011	05/07/86	Letter from Dan Raviv Associates to Exxon re:

			Transmittal of Hydrogeologic Investigation of the Landfarm – Bayway Refinery
59	BBH000012	07/13/90	Administrative Consent Order In the Matter of Exxon Company
60	BBH000013	03/1995	Condenser Sewer Inspection Recommendation Report for Bayway Refinery
61	BBH000017	04/24/97	NAPL IRMs – First Quarter 1997 Monitoring Report – Bayway Refinery by Dan Raviv Associates Inc.
62	BBH000018	04/25/97	Letter from Exxon to NJDEP re: Quarterly Progress Report for 1 <sup>st</sup> Quarter of 1997
63	BBH000019	05/21/97	Letter from Exxon to NJDEP re: agreements reached at Exxon Process Improvement meeting
64	BBH000021	05/23/97	Preliminary Assessment Reports for Investigative Units F and G at the Bayway Refinery
65	BBH000022	06/09/97	Letter from Exxon to NJDEP re: Bayway Refinery 40-Acre Tankfield Free Product Investigation
66	BBH000023	04/09/99	Correspondence from counsel to Honorable John M. Boyle re: Exxon Corp. v Tosco Corp & Bayway Refining Company
67	BBH000026	05/28/99	Letter from Bayway Refinery to NJDEP re: Written Confirmation Weather Related Upset Unanticipated Bypass
68	BBH000027	08/19/99	Letter from Bayway Refinery to NJDEP re: Written Confirmation Weather Related Upset Maximum Temperature Exceedances
69	BBH000028	09/10/99	Letter from NJDEP to Baway Refining re: NJPDES Minor Modification
70	BBH000029	04/27/00	Letter from Bayway Refining to NJDEP re: Written Confirmation Sheen Passed Dam #1
71	BBH000030	03/13/01	NJDEP letter to Tosco Refining re: Discharge Confirmation
72	BBH000031	05/08/01	NJDEP letter to Tosco Refining re: Discharge Confirmation
73	BBJ000001	02/05/91	Letter from counsel to NJDEP re: Exxon Bayway/Bayonne ACOs
74	BBJ000003	11/05/92	Submittal of Confirmation of Notification of Discharge Event at Exxon Chemical Americas
75	BBJ000004	12/10/92	Sale and Purchase Agreement for Bayway Refinery and Related Facilities between Exxon Corporation and Bayway Refining Company
76	BBK000001	09/20/38	Dept. of Health of the State of New Jersey – Application for approval of plans for construction of sewerage and/or industrial wastes treatment works for the City of Linden.
77	BBK000002	05/10/35	Resolution (excerpt) single page Dept. of Health of



			the State of New Jersey
78	BBK000003	06/01/38	Dept. of Health of the State of New Jersey - Application for approval of plans and specifications for the construction of sewerage works for the City of Linden.
79	BBB000004	09/15/39	Permit and resolution of the City of Linden re: sewer extensions
80	BBK000005	09/10/35	Permit for City of Linden for extension relief trunk sewer
81	BBK000006	10/27/52	"Linden-Roselle Sewage Plant Ready", Elizabeth Daily Journal article
82	BBK000007	1965	U.S. Army Corp of Engineers "Port Facilities at Port of New York, Arthur Kill - NY and NJ" Map No. 49
83	BBK000008	06/03/70	Status of Industries in District
84	BBK000009		Map
85	BBK000010		Appendix G, "TRE case Study: Linden Roselle Sewage Authority, New Jersey" (excerpted)
86	BBK000011	10/22/04	New Jersey Discharger - Linden Roselle Sewerage Authority Upgrades Sludge Handling Facilities with EIFP Loan
87	BBK000012	07/14/39	Dept. of Health of the State of New Jersey - application of the approval of plans and specifications for the construction of sewerage and/or industrial wastes treatment works for the City of Linden
88	BBK000013	07/14/39	Application for the City of Linden - sewer extensions
89	BBK000014	07/14/39	Application for the City of Linden - sewage to be discharges into Morses Creek
90	BBK000015	12/08/21	Resolution for sewer extensions
91	BBK000016	11/09/21	Application for the City of Linden - sewer extensions
92	BBK000017	10/04/21	Application for City of Linden - sewer extensions
93	BBK000018	09/13/21	Application for City of Linden - sewer extensions
94	BBK000019	09/25/21	Application for City of Linden - sewer extensions
95	BBK000020	08/03/20	Application for City of Linden - sewer extensions
96	BBK000021	09/16/19	Application for City of Linden - sewer extensions
97	BBK000022	07/12/19	Application for City of Linden - sewer extensions
98	BBK000023	10/22/18	Application for City of Linden - sewer extensions
99	BBK000024	09/17/18	Application for City of Linden - sewer extensions
100	BBK000025	09/03/18	Application for City of Linden - sewer extensions
101	BBK000026	07/02/18	Application for City of Linden - sewer extensions
102	BBK000027	06/07/17	Application for Linden - sewer extensions

103	BBK000028	05/04/20	Application for Linden – sewer extensions
104	BBK000029	10/1962	Map of the City of Linden
105	BBK000030	10/1962	Key Map Storm Sewer Atlas – City of Linden
106	BBK000031	01/1977	Key Map Storm Sewer Atlas – City of Linden – Sheet E-1
107	BBK000032	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet F-3
108	BBK000033	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet F-2
109	BBK000034	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet E-3
110	BBK000035	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet E-2
111	BBK000036	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet D-3
112	BBK000037	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet D-2
113	BBK000038	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet C-3
114	BBK000039	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet C-2
115	BBK000040	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet C-1
116	BBK000041	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet B-2
117	BBK000042	01/1975	Key Map Storm Sewer Atlas – City of Linden – Sheet A-1
118	BBA000265	10/28/1969	Letter from Health Officer to Esso Research chromate in storm sewer.
119	BBA000268	10/28/1968	State of New Jersey Department of Health Approval to Construct Industrial Waste Treatment Plant.
120	BBB000003	06/16/1993	Bayway Refining Co. Discharge Confirmation Report. Hydraulic oil to ground.
121	BBB000004	06/15/1993	Bayway Refining Co. Discharge Confirmation Report. Discharge of API Separator Solids to ground.
122	BBB000008	10/17/1991	NJDEP Communications Center Notification Report. Spill of hexane to sewer drain due to rain.
123	BBB000009	10/23/1991	NJDEP Communications Center Notification Report. Discovery of soil contamination during excavation. Fuel oil.
124	BBB000010	10/23/1991	NJDEP Duty Officer Notification Report. Spill of aluminum trichloride to land.
125	BBB000011	10/25/1991	Exxon Co USA. Discharge Confirmation Report. Spill of brake fluid to ground due to broken brake line.

126	BBB000020	09/28/1992	Exxon Co USA. Discharge Confirmation Report. Removal of free oil from banks of Morses Creek.
127	BBB000021	09/28/1992	Exxon Co. USA. Discharge Confirmation Report. Fuel oil in Arthur Kill due to crack in barge hull.
128	BBB000027	08/31/1992	Exxon Co. USA. Discharge Confirmation Report. Discharge of lubricating oil to ground.
129	BBB000030	08/07/1992	Exxon Co USA. Discharge Confirmation Report. Oil and water discharge to Arthur Kill.
130	BBB000031	08/07/1992	Exxon Co USA. Discharge Confirmation Report. Sodium hydroxide to ground.
131	BBB000032	07/31/1992	Exxon Co USA. Discharge Confirmation Report. Lube oil leak from ship into Arthur Kill.
132	BBB000033	07/30/1992	NJDEP Communications Center Notification Report. Spill of lube oil to ground.
133	BBB000034	07/22/1992	Exxon Co USA. Discharge Confirmation Report. Leaks from sulfuric acid recirculation line.
134	BBB000035	07/22/1992	Exxon Co USA. Discharge Confirmation Report. Sodium hydroxide to ground.
135	BBB000036	07/22/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of hydraulic oil to ground.
136	BBB000042	04/23/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of naphtha to ground.
137	BBB000045	04/28/1992	NJDEP Memorandum with attached NJDEP Communications Center Notification Report. Discharge of unknown amount of naphtha to soils.
138	BBB000047	04/15/1992	NJDEP Communications Center Notification Report. Spill to ground of 1,4-Dihydroxyanthraquinone red dye from overfilled tank.
139	BBB000052	04/01/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of 100 gals. Of heating oil to west bank of Morses Creek.
140	BBB000053	02/25/1992	NJDEP Investigation Report. Spill of approximately 7000 gals. of oil additive from rail car to ground.
141	BBB000061	03/03/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of naphtha to ground.
142	BBB000065	02/11/1992	NJDEP Communications Center Notification Report. Leak from waste oil line.
143	BBB000066	02/13/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of naphtha to ground.
144	BBB000070	02/13/1992	Exxon Co USA. Discharge Confirmation Report. Oil sheen on Arthur Kill.
145	BBB000073	01/30/1990	NJDEP Memorandum. Exxon Bayway Spill Update.

146	BBB000248	10/24/1985	USEPA Pollution Report. Release from Exxon Chemical Co. of hydrogen sulfide and mercaptan to air.
147	BBB0000258	01/12/1994	Bay Refining Co. Discharge Confirmation Report. Spill on 12/31/1993 of naphtha to air and ground.
148	BBB000260	01/19/1994	Bay Refining Co. Discharge Confirmation Report. Discharge of oil/water mixture from flushing of sump on facility dock.
149	BBB000263	04/06/1993	Exxon Co USA. Discharge Confirmation Report. Discharge of spent sulfuric acid to ground.
150	BBB000264	04/06/1993	Exxon Co USA. Discharge Confirmation Report. Discharge of oil and grease residue to Arthur Kill.
151	BBB000265	04/06/1993	Exxon Co USA Discharge Confirmation Report. Sheen on Arthur Kill.
152	BBB000270	02/26/1993	Exxon Co USA. Discharge Confirmation Report. Sheen on Arthur Kill. 02/05/93.
153	BBB000271	02/26/1993	Exxon Co USA Discharge Confirmation Report. Sheen on Arthur Kill. 01/27/93.
154	BBB000272	02/05/1993	Exxon Co USA Discharge Confirmation Report. Unknown discharge and media. 01/20/93.
155	BBB000274	01/20/1993	Exxon Co USA Discharge Confirmation Report. Sulfuric acid to ground.
156	BBB000275	01/08/1993	Exxon Co USA Discharge Confirmation Report. Sulfuric acid to ground.
157	BBB000276	12/21/1992	Exxon Co USA Discharge Confirmation Report. Discharge of Stretford Solution to unknown media.
158	BBB000277	12/21/1992	Exxon Co USA Discharge Confirmation Report. Oil sheen on Arthur Kill.
159	BBB000278	12/14/1992	Exxon Co USA Discharge Confirmation Report. Oil/water mixture to Arthur Kill.
160	BBB000279	12/11/1992	Star-Ledger article. Exxon Selling Bayway in \$175 Million Deal.
161	BBB000280	12/04/1992	Exxon Co USA. Discharge Confirmation Report. Discharge of gas oil to ground/soil.
162	BBB000281	12/04/1992	Exxon Co USA. Discharge Confirmation Report. Oil/water mixture to soil.
163	BBB000282	11/20/1992	Exxon Co USA Discharge Confirmation Report. MTBE to ground.
164	BBB000286	11/05/1992	Exxon Co USA. Discharge Confirmation Report. Sodium hydroxide to ground.
165	BBB000288	06/09/1992	NJDEP Communications Center Notification Report. Spill of waste oil.
166	BBB000290	06/02/1992	NJDEP Communications Center Notification Report. Spill from dripping slop line.

167	BBB000420	02/01/1993	Letter from Exxon Company U. S. A. Re notification of pending sale and request to initiate transfer of permits process.
168	BBB000423	12/10/1992	Exxon Company U. S. A. Press Release. Exxon To Sell New Jersey Refinery to Tosco.
169	BBF000063	06/06/2001	The Handbook of Texas Online: Exxon Company U. S. A.
170	BBF000065	05/13/2007	Online trademark record: Esso. Filed 06/07/1923.
171	BBF000066	05/13/2007	State of Delaware Online record: Esso Standard Oil Company
172	BBF000067	05/13/2007	Excerpt from SEC Form 10-K Annual Filing for Exxon Mobil Corp. Year ending 12/31/1999.
173	BBF000068	05/13/2007	Excerpt from SEC Form S-4 for Exxon Corp. Dated 04/05/1999.
174	BBF000069	05/13/2007	Excerpt from SEC Form 10-K Annual Filing for Exxon Mobil Corp. Year ending 12/31/2006.
175	BBF000070	05/14/2007	USEPA Envirofacts Report: Exxon Chemical Co..
176	BBF000071	05/14/2007	US Federal Trade Commission. In the Matter of Exxon Corp. et al. Agreement Containing Consent Order. Dated 07/1998.
177	BBF000072	09/29/2003	National Labor Relations Board. In re Exxon Chemical and Teamsters Local 877.
178	BBF000073	05/14/2007	Online website print-out: Exxon Mobil Chemical. Company Profile.
179	BBF000074	05/14/2007	D&B Business Information Report: Exxon Mobil Chemical Co.
180	BBF000075	05/14/2007	State of Delaware, Dept. of State, Div. of Corporations online report. Conoco, Inc.
181	BBF000076	05/14/2007	State of Delaware, Dept. of State, Div. of Corporations online report. Continental Oil Co.
182	BBF000077	05/14/2007	State of Delaware, Dept. of State, Div. of Corporations online report. Conoco, Inc.
183	BBF000078	05/14/2007	State of Delaware, Dept. of State, Div. of Corporations online report. Conoco, Inc.
184	BBM000001	12/06/1974	NJDEP Application for Permit. Air Pollution Control.
185	BBM000002	08/02/1989	NJDEP Suspected Hazardous Substance Discharge Notification. With attached NJDEP Communications Center Notification Report. Aluminum chloride cloud in sewer.
186	BBM000003	10/06/1993	NJDEP Notice of Civil Administrative Penalty Assessment. Re 40 Acre Tank Field.
187	BBM000004	10/06/1993	NJDEP Notice of Civil Administrative Penalty Assessment. Re Rahway River Tank Field.
188	BBM000005	02/03/1993	Exxon Company U.S.A. Bayway Refinery Site

			History Deliverable Per Administrative Consent Order. Volume 1. Excerpts.
189	BBM000006	02/03/1993	Exxon Company U.S.A. Bayway Refinery Site History Deliverable Per Administrative Consent Order. Volume 2. Excerpts.
190	BBM000007	02/03/1993	Exxon Company U.S.A. Bayway Refinery Site History Deliverable Per Administrative Consent Order. Volume 3. Excerpts.
191	BBM000008	02/03/1993	Exxon Company U.S.A. Bayway Refinery Site History Deliverable Per Administrative Consent Order. Volume 4. Excerpts.

### *Koppers Company, Inc.*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BAA000010	03/99	<i>Remedial Action Work Plan</i> prepared by Key Environmental, Inc.
2	BAA000011	01/12/1972	NJDEP Memo Re: Port Authority Marine Terminal-Newark
3	BAA000012	11/18/71	Letter from The Port of New York Authority to NJDEP transmitting <i>Inventory of Waste Water Outfalls at Port of New York Authority Facilities Discharging into Navigable Waters or Tributaries</i>
4	BAB000001	06/15/76	Lease Agreement between The Port Authority of New York and New Jersey and Koppers Company, Inc.
5	BAB000033	08/11/88	NJDEP <i>Site Evaluation Submission (SES)</i>
6	BAB000037	11/16/88	NJDEP ECRA Report of Inspection
7	BAB000042	11/30/88	Amendment to Administrative Consent Order in the Matter of BNS, Inc. and Koppers Company, Inc. ECRA Case #88286
8	BAB000045	03/16/89	NJDEP Hazardous Waste Management Facility Inspection Report
9	BAB000046	03/22/89	Letter from PVSC to Koppers Industries, Inc. Re: Revisions to Sewer Connection Permit
10	BAB000050	06/16/89	Letter from Beazer Materials and Services, Inc. to NJDEP Re: BNS, Inc. and Koppers Company, Inc.

TAB NO.	BATES NO.	DATE	DESCRIPTION
11	BAB000053	07/21/89	<i>Final Draft, Preliminary Assessment, Koppers Company Inc./Port Newark</i> prepared for USEPA by NUS Corporation
12	BAB000065	10/89	<i>Container Storage Facility Soil Sampling Results</i> prepared by Keystone Environmental Resources, Inc.
13	BAB000078	03/19/90	Letter from Keystone Environmental Resources to NJDEP Re: Transmittal of Tier II deliverables and results for first round of sampling in 1990
14	BAB000082	06/22/90	Letter from Keystone Environmental Resources to NJDEP transmitting <i>Draft Addendum Number 3 to ECRA Site Assessment Preliminary Data Report</i> prepared by Keystone
15	BAB000098	09/10/91	Letter from NJDEP to Beazer Re: Closure Certification for Koppers Industries, Inc.
16	BAB000244	03/22/89	Letter from Beazer to NJDEP Re: RCRA Financial Documents (incomplete)
17	BAC000001	06/15/88	Administrative Consent Order in the Matter of BNS, Inc. and Koppers Company, Inc.
18	BAC000002	09/24/90	Letter from Beazer East, Inc. to NJDEP transmitting a revised USEPA Part A
19	BAC000003	01/07/04	<i>Baseline Ecological Evaluation</i> prepared by Key Environmental, Inc.
20	BAC000004	06/24/91	Letter from Koppers to NJDEP Re: GIS and SES forms
21	BAC000005	07/09/91	Letter from Koppers to NJDEP Re: Modification to ECRA GIS and SES forms
22	BAC000006	07/17/89	Letter from Koppers Industries to NJDEP Re: July 6, 1989 spill
23	CAA000001	02/28/07	Online: Dunn & Bradstreet report for Beazer East Inc., <a href="http://www.dnb.com">www.dnb.com</a>
24	CAA000002	08/01/02	Online: <i>RCRA Corrective Action, Environmental Indicator (EI) RCRAInfo code (CA725), Current Human Exposures Under Control</i> , <a href="http://epa.gov/r02earth/waste/beaze725.pdf">http://epa.gov/r02earth/waste/beaze725.pdf</a>
25	CAA000003	01/17/07	SEC EDGAR Online: Koppers Inc. Form 10-K405 filed 3/31/97, <a href="http://sec.edgar-online.com">http://sec.edgar-online.com</a>
26	CAA000005	08/14/92	Online: FTCnews, <i>Beazer PLC Agrees to Pay \$760,000 Civil Penalty To Settle Charges That It Failed To Notify FTC Before Acquiring Koppers Company Stock</i> , <a href="http://www.usdoj.gov/atr/public/press_releases/1992/211248a.htm">http://www.usdoj.gov/atr/public/press_releases/1992/211248a.htm</a>

TAB NO.	BATES NO.	DATE	DESCRIPTION
27	CAA000009	12/30/54	<i>\$20 Million Outlay Planned by Koppers, The New York Times</i>
28	CAA000011	09/02/97	<i>Aluminum Company of America v. Beazer East, Inc., et al., U.S. Court of Appeals for the Third Circuit, No. 96-3420</i>
29	CAA000012	2006	<i>Mergent Industrial Manual, Vol. 2 (excerpts)</i>
30	CAA000013	4/25/07	Online: <i>Welcome to Koppers</i> , www.koppers.com
31	CAA000014	4/25/07	Online: <i>Saratoga Partners</i> , www.saratogapartners.com
32	CAA000015	5/20/88	<i>Beazer Extends Bid for Koppers, The New York Times</i>
33	CAA000016	11/17/88	<i>Beazer to Buy Out Partners' Interest, The New York Times</i>
34	CAB000001	05/04/81	The Port Authority of NY & NJ - Port Newark Sewage & Drainage System Plan
35	CAB000002	11/80	<i>Dioxins</i> by M.P. Esposito, et al., EPA-600/2-80-197 (excerpts)

## Engelhard Corporation, Newark

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BBD000001	02/2007	Hoovers Online - BASF Fact Sheet
2	BBD000002	02/2007	Engelhard Online – Overview of Engelhard
3	BBD000003	02/2007	BASF Online – BASF in Brief
4	BAA000001	11/21/85	Site Evaluation Submission (SES) for ECRA
5	BAA000002	09/2005	<i>Baseline Ecological Evaluation (BEE) for New Jersey Bottling Urban Development Corp. (NJBUDC)</i>
6	BAA000003	10/18/2000	<i>Remedial Action Report - Former Engelhard Site</i>
7	BAA000004	04/27/06	Letter from NJDEP to Lowenstein Sandler re: Review comments for BEE
8	BAA000005	05/17/06	Letter from Environ to NJDEP re: Response to NJDEP 4/27/06 letter regarding the BEE
9	BAA000006	06/02/06	Letter from NJDEP to Lowenstein Sandler re: Comments concerning 5/17/06 BEE Work Plan
10	BAA000007	08/95	<i>Groundwater Remedial Addendum Report</i>
11	BAA000020	10/23/85	GIS



TAB NO.	BATES NO.	DATE	DESCRIPTION
12	BAA000021	03/87	GIS Attachment (Attachment G marked "Confidential and Privileged/Attorney-Client Communication", source: NJDEP files Dec. 2006)
13	BAA000022	10/90	Additional ECRA SAP
14	BAA000026	03/15/96	Letter from Environ to NJDEP re: Response Letter
15	BAA000027	05/22/72	Waste Effluent Survey
16	BAA000029	09/19/95	Part B Hazardous Waste Permit Application (incomplete)
17	BAA000030	08/20/80	Report on Environmental Problems at Delancy St. (marked "Confidential and Privileged/Attorney-Client Communication", source: City of Newark Engineering Dept. files June 1998)
18	BAA000031	10/01/82	NJDEP Incident Report
19	BAA000032	04/94	<i>Work Plan for the Implementation of the Second Revised Cleanup Plan</i> , Vol. I of II, prepared by Environ Corp.
20	BAA000033	03/20/87	Engelhard letter to NJDEP transmitting <i>Revised Sampling Plan</i> , prepared by Environ Corp.
21	BAB000002	4/5/93	NJPDES Permit Comment Letter
22	BAB000003	3/19/93	NJPDES Permit Public Notice
23	BAB000004	2/16/96	NJPDES Permit Termination
24	BAB000005	10/15/76	Letter from Engelhard to NJDEP re; Notice of Violation
25	BAB000006	5/5/77	Letter from Engelhard to NJDEP re; Notice of Violation
26	BBK000001	2005	Engelhard 2005 Annual Report
27	BBK000002	04/12/04	USPTO, Trademark Electronic Search System (TESS), re: Engelhard/ICC, Record 1 out of 3
28	BBK000003	04/12/04	USPTO, Trademark Electronic Search System (TESS), re: Engelhard, Record 2 out of 3
29	BBK000004	04/12/04	USPTO, Trademark Electronic Search System (TESS), re: Engelhard, Record 3 out of 3
30	BBK000005		<i>The history of Engelhard Corporation</i> , <a href="http://www.engelhard.com">www.engelhard.com</a>
31	BBK000006	11/02/06	News Release <i>BASF announces full Engelhard integration</i> , <a href="http://corporate.basf.com">http://corporate.basf.com</a>
32	BBK000007	06/09/06	News Release- <i>BASF receives over 90% of Engelhard shares</i> , <a href="http://corporate.basf.com">http://corporate.basf.com</a>
33	BBK000008	08/01/06	News Release- <i>BASF begins to rename Engelhard worldwide</i> , <a href="http://corporate.basf.com">http://corporate.basf.com</a>
34	BBK000009	03/09/07	Hoovers Online Re: BASF Corporation
35	BBK000010	03/09/07	Hoovers Online Re: BASF Catalysts LLC
36	BBK000011	06/12/06	News-BASF Completes Acquisition of Engelhard Corporation

TAB NO.	BATES NO.	DATE	DESCRIPTION
37	BBK000012	08/09/06	BASF Corporation, About Us, Profile: BASF in North America, <a href="http://www.basf.com">www.basf.com</a>
38	BBK000013	1954	Made in NEW JERSEY, copyright 1954 by the Trustees of Rutgers College in New Jersey (excerpts)
39	BBK000015	1954-55	New Jersey Industrial Directory 1954-55 (excerpts)
40	BBK000016	1964	Newark Industrial Directory 1964 (excerpts)
41	BBK000017	1964-1965	Price & Lee's Newark City Directory 1964-1965 (excerpts)
42	BBK000018	1972	Newark Directory of Business (excerpts)
43	BBK000019	1977	New Jersey State Industrial Directory (excerpts)

### *Merck & Co., Inc., Rahway*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BAB000001	11/1/83	Letter from Merck Chemical to USEPA re: response to questionnaire
2	BAC000001	3/1994	RCRA Facility Investigation Merck Rahway Facility, Phase II Report, Volume I, prepared by Dames & Moore.
3	BAC000002	3/1994	RCRA Facility Investigation Merck Rahway Facility, Phase II Report, Volume II, prepared by Dames & Moore
4	BAC000003	9/2005	2004/2005 Groundwater Management Report by URS
5	BAC000004	3/2005	Hydrogeologic Summary Report – Rahway Site by URS
6	BAC000006	9/2005	Annual Remediation Report – Sept. 2004 – August 2005 for Rahway Site by URS.
7	BAC000007	10/22/03	Letter from Merck & Co. to NJDEP attaching Deed Restriction, (w/attachment)
8	BAC000009	2/15/06	Letter from Merck to USEPA re: response to comments concerning the 2005 GW & Soil Vapor Sampling Results.
9	BAC000011	4/19/05	Letter from NJDEP to Merck & Co. re: comments to 2003/2004 Annual Remediation Report.
10	BAD000001	1944	Resources Protection Data Chart indicating production of DDT by Merck & Co. and other national manufacturers, prepared for USDOD.
11	BAE000001	1946-1947	Excerpts from the Oil, Paint & Drug Reporter – Green Book Directory – lists Merck & Co. as a manufacturer

			of DDT.
12	BAE000002	1947-1948	Excerpts from the Oil, Paint & Drug Reporter – Green Book Directory – lists Merck & Co. as a manufacturer of DDT.
13	BAE000003	1949-1950	Excerpts from the Oil, Paint & Drug Reporter – Green Book Directory – lists Merck & Co. as a manufacturer of DDT.
14	BAE000004	1935	Excerpts from: Entoma – A Directory of Insect Pest Control, published by the Eastern Branch of the American Association of Economic Entomologists, edited by C.C. Hamilton.
15	BAE000005	1979-1980	Excerpts from the Pesticide Handbook – Entoma, published by the Entomological Society of America, edited by Robert L. Caswell.
16	BAE000006	6/1957	Excerpts from: <u>Pesticides – Economic Poisons</u> , by NJ Agricultural Experiment Station – Rutgers – The State University.
17	BAE000007	6/1958	Excerpts from: <u>Pesticides – Economic Poisons</u> , by NJ Agricultural Experiment Station – Rutgers – The State University.
18	BAE000008	8/1960	Excerpts from: <u>Pesticides – Economic Poisons</u> , by NJ Agricultural Experiment Station – Rutgers – The State University.
19	BAE000009	6/1962	Excerpts from: <u>Pesticides – Economic Poisons</u> , by NJ Agricultural Experiment Station – Rutgers – The State University.
20	BAE000010	7/1963	Excerpts from: <u>Pesticides – Economic Poisons</u> , by NJ Agricultural Experiment Station – Rutgers – The State University.
21	BAG000098	10/18/88	NJDEP letter to Mrs. T. Jones of Merck Chemical.
22	BAH900002	1/16/85	Memo from Ray Nierstedt to Jerome Frederick re: Merck TBZ Process
23	BAJ000001	11/1980	USEPA Report: <u>Dioxins</u> , Reference # PB82-136847, prepared by M.P. Esposito, T.O. Tiernan and Forrest E. Dryden.
24	BAK000001	12/85	Phase II Dioxin Site Investigation Final Report for Merck & Co., prepared by E.C. Jordan Co.
25	BAK000002	10/91	RCRA Facility Investigation Rahway Facility – Facility Background Report, Volume I, prepared by Dames & Moore.
26	BAK000003	10/91	RCRA Facility Investigation Rahway Facility – Facility Background Report, Volume II, prepared by Dames & Moore.
27	BAK000004	10/91	RCRA Facility Investigation Rahway Facility – Phase I Report, w/appendices, prepared by Dames & Moore.
28	BAL000001	10/31/06	Hoovers online database – <a href="http://www.hoovers.com">www.hoovers.com</a>

			overview summary for Merck & Co., Inc.
29	BAL000003	2006	Merck's report to shareholders 2005
30	CAA000001	April 1995	Phase II Report, Merck Range Road Property – Groundwater Management Investigation, prepared by Dames & Moore.
31	CAA000002	February 2004	2002/2003 Monitoring Report Range Road Property by URS.
32	DAA000001	1942	Thomas' Register of American Manufacturers – Classified Lists –Insecticides –NJ section.
33	DAA000008	1955	Thomas' Register Classified Lists – DDT NJ section
34	DAA000010	1956	Thomas' Register Classified Lists – Insecticides – NJ section
35	DAA000013	1962	Thomas' Register Classified Lists - Insecticides – NJ section
36	DAA000014	1963	Thomas' Register Classified Lists – NJ & Texas
37	DAA000017	1967	Thomas' Register Classified Lists – NJ, Texas, DDT Solvent
38	DAB000001	06/05/44	Present Status of DDT Production and Projects for New Facilities
39	DAB000002	06/02/44	War Production Board – Press Release Re: DDT Production
40	DAB000003	06/08/44	War Production Board memo Re: Raw material requirements, DDT
41	DAB000005	07/05/44	War Production Board memo Re: expansion of DDT production facilities
42	DAB000006	07/18/44	War Production Board summary of meeting – DDT production meeting – Merck as a member.
43	DAB000007	10/19/44	War Production Board summary of meeting – DDT production meeting – Merck as a member.
44	DAB000065	1944	U.S. Tariff Commission – list of synthetic organic chemicals & manufacturers
45	DAB000066	1945	U.S. Tariff Commission – list of synthetic organic chemicals & manufacturers

## *Dow Chemical Company, Bayonne*

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BAA000001	10/1/96	NJ VHI/RCRIS Compliance, Monitoring and Enforcement Log for Rollins Terminals; No Violations – facility closed.
2	BAA000002	4/22/92	NJDEP Request for issuance of Administrative Cost Recovery Demand Letter re: Haz. Substance: Zirconium Oxychloride.
3	BAA000003	1/31/97	NJDEP Memo: last shipment of waste from Rollins between 4/95 and 5/95.
4	BAA000004	Circa 1992	Inspection Narrative concerning inspection on 1/28/92 at Bayonne Terminals; noted that hazardous waste removal service was provided by Ken's Marine Service, Bayonne.
5	BAA000006	1/6/92	Letter from Bayonne Terminals to Bayonne Fire Dept. enclosing a tank product inventory chart – contents and location of storage tanks on site.
6	BAA000009	6/11/93	Letter from Bayonne Terminals to DEP regarding plans to conduct a remedial investigation on site in response to allegations by Norton and Sons, Inc.
7	BAA000010	6/24/93	Bayonne Terminals report of results concerning the remedial investigation. Norton and Sons, Inc. claimed BTI was directing an unknown substance to their property via underground pipe. Results of BTI investigation: negative.
8	BAA000013	10/13/92	Letter from Bayonne Terminals to NJDEP with comments re: MOA (attached).
9	BAA000014	9/30/92	NJDEP enforcement invoice regarding discharge of zirconium oxychloride from Rollins Terminals Site on December 24, 1990.
10	BAA000015	2/24/92	NJDEP Case Transfer Report re Bayonne Terminals: Metro BFO taking over case; poor housekeeping and possibility of illegal discharge witnessed by Norton and Sons, Inc. (neighbor).
11	BAA000016	12/20/91	Letter from attorneys of Norton and Sons, Inc., (Apruzzese, McDermott, et al) re: statement of activities at the Rollins site.

TAB NO.	BATES NO.	DATE	DESCRIPTION
12	BAA000017	2/4/91	Letter from NJDEP, Division of Water Resources, to BTI, concerning findings of 10/15/90 investigation. BTI was cited for discharging materials and product to the ground hence, into ground-water.
13	BAA000018	8/3/90	NJDEP Duty Officer Notification Report; re: 500 gallon morpholine discharge to the ground at the BTI site.
14	BAA000019	12/24/90	NJDEP Duty Officer Notification Report; Discharge of "blue liquid" into Kill Van Kull (Zirconium Oxy Chloride). Comments from Bayonne Terminals, Inc. were attached to the report.
15	BAA000020	12/24/90	NJDEP Investigation report re: an estimated 66,267 gallon loss of material (Zirconium Oxy Chloride) to the Kill Van Kull.
16	BAA000024	1/19/87	Hudson Regional Health Commission Emergency Response Report regarding spill of 500,000 gallons of caustic soda at the at the Rollins Terminal, Inc. site.
17	BAA000025	12/27/90	NJDEP Investigation report; Issuance of Notice of Violation in regards to spill of Zirconium Oxy Chloride.
18	BAA000026	1/21/87	NJDEP Notice of Violation issued to Rollins Terminals in regards to spill of over 500,000 gallons caustic soda to waterway.
19	BAA000027	9/19/89	Correspondence from BTI to NJDEP re: report of spill from BTI of 200 gallons mineral oil to ground.
20	BAA000028	8/28/87	Correspondence from NJDEP re: Ground Water sample results for Mobay Chemical. Two wells located on the Rollins property line had unusually high Total Volatile Organics concentrations.
21	BAA000030	5/19/82	Series of NJDEP Memos and related correspondence (Bill of Ladings, etc.) regarding Rollins disposal procedures. Memos discuss various competitors who store bulk chemicals. (* Roloc [CPS] accused of dumping solvents directly into the sewer at 26 Riverside, Newark – old PPG site).
22	BAA000031	9/3/82	NJDEP Hazardous Waste Investigation report re: follow up visit at Rollins Terminals concerning spill cleanup and off spec material; sample bottles inspection.

<b>TAB NO.</b>	<b>BATES NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
23	BAA000031A	5/19/82	NJDEP Hazardous Waste Investigation report re: muriatic acid spill at Rollins Terminals and follow-up investigation.
24	BAA000032	1/21/87	NJDEP Investigation report – 550,000 gallons of sodium hydroxide solution spill at Rollins. Also attached are follow up investigation reports on the same incident; and follow up report by Hudson Regional Health Commission.
25	BAA000033	5/95	Work Plan For Site Investigation, Bayonne Terminals, Inc. prepared by Malcolm Pirnie, Inc.
26	BAA000034	9/1995	Site Investigation Results, Bayonne Terminals, Inc. Warehouse Parcel, Bayonne, NJ, prepared by Malcolm Pirnie.
27	BAA000035	10/16/95	Letter from Midge Rose Guthrie, Attorney to ISEE – NJDEP re: application for an applicability determination Bayonne Terminals. Encl. fully executed application for review
28	BAA000036	12/14/89	NJDEP Notice of Violation issued to BTI re: unpermitted discharge to surface water and release of raw fatty acid.
29	BAB000001	3/29/01	Case Summary from PACER database re: Bayonne Terminals, Inc. filing of Chapter 7 Bankruptcy Proceedings, Delaware.
30	BAB000002	11/06	Business Entity Status Report for Bayonne Terminals, Inc. obtained from the New Jersey State Business Gateway Service.
31	BAB000003	12/3/06	D & B Business Information Report for Matlack Systems, Inc.
32	BAB000004	12/3/06	Company profile of Matlack Systems, Inc. obtained from Hoovers online research at: <a href="http://premium.hoovers.com">http://premium.hoovers.com</a>
33	BAB000006	12/14/01	Matlack System's 8-K financial report submitted to the United States Securities and Exchange Commission (SEC)
34	BAC000001	4/29/99	Deed between Lehigh Warehouse & Transportation Company, (known as "Bayonne Terminals") to Duraport Realty One, LLC
35	BAC000002	2/17/00	Deed between Rollins Terminals, (known as "Bayonne Terminals") to Duraport Realty Two, LLC
36	BAC000003	10/10/03	Quitclaim Deed by Gary Seitz, as Chapter 7 Trustee for Bayonne Terminals, and Superior-MPM (Manufacturing Property Management) LLC.

TAB NO.	BATES NO.	DATE	DESCRIPTION
37	BBA000002	Unknown	Newspaper article entitled "Terminal, Ship to Carry Chemicals Shown Here"
38	BBA000003	5/4/54	"Welcome aboard SS Marine Dow-Chem" - brochure prepared by the Dow Chemical Company.
39	BBA000005	2006	Company Overview – Dow Chemical Company obtained from on-line database: <a href="http://premium.hoovers.com">http://premium.hoovers.com</a>
40	BBA000006	2006	Dow Chemical Co. business information and overview reports obtained from online research at the company website: <a href="http://www.dow.com">http://www.dow.com</a>
41	BBA000007	2006	Summary of Dow Chemical Company obtained from online research at <a href="http://en.wikipedia.org">http://en.wikipedia.org</a>
42	BBB000001	6/26/80	Staten Island Advance newspaper article re: "Drums dumped at Howland Hook removed"
43	BBC000001	1979	Sanborn Map # 22 for Bayonne, Hudson County, NJ, Volume 10.
44	BBC000002	1985	MacRae's Industrial Directory, New Jersey, indicating a Dow Chemical Co. facility location at 2 Commerce Street, Bayonne, NJ
45	BBC000003	1990	MacRae's Industrial Directory, New Jersey, indicating a Dow Chemical Co. facility location at 2 Commerce Street, Bayonne, NJ
46	BBC000004	11/80	Excerpts from the USEPA research & development report entitled "Dioxins" referenced as # EPA600280197, prepared by M.P. Esposito, T.O. Tiernan and F. Dryden.
47	BBD000001	9/1/64	Memorandum Agreement – Option to Purchase between Dow Chemical Co. and Lehigh Tank Farm/Lehigh Warehouse & Transportation Company for Ingham Avenue, Bayonne site.
48	BBD000002	11/23/82	First Amendment of Lease – between El Dorado Terminals Co. and Dow Chemical Company
49	BBD000003	5/20/80	Memorandum of Lease between El Dorado Terminals and Dow Chemical Co.
50	BBD000005	12/8/99	Memorandum of Lease between El Dorado Terminals Company and Dow Chemical Company
51	BBE000001	2/21/07	Database business entity summary reports obtained from New Jersey Business Gateway Service (from NJ Div. of Revenue) for Duraport Realty One, LLC and Duraport Realty Two, LLC.
52	BBE000002	2/21/07	D & B company report for Duraport Realty Three, LLC.



TAB NO.	BATES NO.	DATE	DESCRIPTION
53	BBE000003	2/21/07	Factiva Database report listing out Chapter 11 bankruptcies and Chapter 7 petitions, and also listing Duraport Realty Three as filing for Chapter 11 proceedings.
54	BBF000001	6/2/04	Database Deed records obtained from Hudson County Hall of Records re: Block 481, Lot 3 – Property owner: IMTT-Bayonne
55	BBF000002	7/19/05	Database Deed records obtained from Hudson County Hall of Records re: Block 481, lot 6 – Property Owner El Dorado Terminals
56	BBF000003	6/2/04	Database Deed records obtained from Hudson County Hall of Records re: Block 482, Lot 3 – Property Owner: IMTT Bayonne
57	BBF000004	1/18/06	Database Deed records obtained from Hudson County Hall of Records re: Block 482, Lot 4 – Property Owner: IMTT- Bayonne
58	BBF000005	7/19/05	Database Deed records obtained from Hudson County Hall of Records re: Block 482, Lot 5 – Property Owner: El Dorado Terminals
59	BBF000006	7/19/05	Database Deed records obtained from Hudson County Hall of Records re: Block 482, Lot 6 – Property Owner; El Dorado Terminals
60	CAA000001	6/12/85	NJDEP Inspection Report for Rollins Terminals, Inc.
61	CAA000002	9/19/85	Letter from Rollins to USEPA addressing intended actions in response to EPA's 5/10/85 site inspection.
62	CCE000001	1/21/72	United States District Court District of New Jersey – Order for Dismissal
63	CCE000002	5/7/71	Notice of Appearance and Complaint: <u>USA v Rollins Terminal</u> filed in US District Court - Criminal No. 26371.
64	CCG000036	Undated	IMTT Power point presentation located within NJDEP case files re: history & status of the entire IMTT site.
65	DAA000001	11/14/06	Dun & Bradstreet Comprehensive Report summary for International Matex Tank Terminals (IMTT)
66	DAB000001	July 2005	Preliminary Assessment IMTT – Bayonne Chemical South, Bayonne, NJ Volume II, prepared by Bluestone Environmental Services.
67	DAB000002	10/31/03	NJPDES Permit Modification Application- Permit # NJ0003361 and Permittee IMTT-Bayonne
68	DAB000003	7/2005	Site Investigation Report –Chem South Dike Interconnection Trench – IMTT - BC, Bayonne New Jersey, prepared by Bluestone Environmental.

TAB NO.	BATES NO.	DATE	DESCRIPTION
69	EAA000001	9/20/89	Hudson Dispatch article entitled: "Bayonne firm fined \$3.2M" (Powell Duffryn Terminals Inc.)
70	EAA000002	8/31/90	Jersey Journal article entitled: "Environmentalists win again in fight to keep water clean - Powell Duffryn must pay \$4.2M"

## CasChem, Inc.

TAB NO.	BATES NO.	DATE	DESCRIPTION
1	BAK000001	11/06/1989	NJDEP Fact Sheet for DRAFT NJPDES Permit NJ0000949
2	BAK000002	06/28/1991	NJPDES Permit No. NJ0000949
3	BAK000003	08/1984	USEPA Consent Agreement
4	BAK000004	12/04/1985	NJDEP Investigation Memorandum
5	BAK000005	01/07/1986	NJDEP letter to CasChem re: Violation, NOV attached
6	BAK000006	09/05/1986	NJDEP Report of Phone Call re: spill
7	BAK000007	11/14/1986	NJDEP letter to CasChem Re: Compliance Evaluation Inspection
8	BAK000008	06/29/1988	NJDEP letter to CasChem Re: Compliance Evaluation Inspection
9	BAK000009	04/05/1989	NJDEP letter to CasChem Re: Compliance Evaluation Inspection
10	BAK000010	05/25/1989	CasChem DMR submittal to NJDEP
11	BAK000011	07/27/1989	Notice of Violation
12	BAK000012	08/04/1989	CasChem letter to NJDEP Re: Violations occurred due to road surfacing activities
13	BAK000013	10/20/1989	NJDEP letter to CasChem re: Compliance Evaluation Inspection
14	BAK000014	04/11/1990	Star Ledger article, <i>U.S. Agents stage raid on Bayonne chemical plant in toxic waste probe</i>
15	BAK000015	05/18/1990	NJDEP Administrative Order and Notice of Civil Administrative Penalty Assessment issued to CasChem
16	BAK000016	08/22/1990	NJDEP letter to CasChem re: Compliance Evaluation Inspection
17	BAK000017	06/21/1990	Communications Center Notification Report Re: Castor oil released to Newark Bay
18	BAK000018	10/19/90	CasChem letter to NJDEP re: discharge of

TAB NO.	BATES NO.	DATE	DESCRIPTION
			castorwax to Newark Bay
19	BAK000019	06/18/1991	NJDEP Division of Water Resources report of phone call or visit re: permit non-compliance
20	BAK000020	09/11/1991	NJDEP letter to CasChem re: Compliance Evaluation Inspection
21	BAK000021	04/09/1992	NJDEP letter to CasChem re: permit limit violation for TSS
22	BAK000022	05/22/1992	CasChem letter to NJDEP regarding unplanned release
23	BAK000023	01/18/1993	NJDEP Communications Center Notification Report Re: Vegetable Oil spill
24	BAK000024	09/21/1995	NJDEP Communications Center Notification Report Re: Castor oil release
25	BAK000025	10/19/1995	NJDEP Communications Center Notification Report Re: release of unknown amount of soap
26	BAK000026	10/21/04	Invoice # 17345
27	BAK000027	06/2004	Preliminary Assessment Report CasChem, Inc. prepared by Earth Tech, Inc.
28	BAK000028	03/25/1996	NJDEP Communications Center Notification Report Re: Oil and grease release
29	BAK000029	03/28/1989	NJDEP Division of Water Resources Industrial Pretreatment Inspection Report
30	BAK000030	03/31/1990	CasChem Submittal to Bayonne Fire Department
31	BAK000031	03/11/1988	CasChem CRTK Survey submittal for the period covering 1987
32	BAK000032	02/24/1995	CasChem CRTK Survey submittal for the period covering 1994
33	BAK000033	01/06/1983	Bureau of Fire Prevention Bayonne FD Application for permit re: specific chemicals
34	BAK000034	03/22/1990	Communications Center Notification Report Re: Spill to Bay
35	BAK000035	09/15/1989	Communications Center Notification Report Re: Spill to Bay
36	BAK000036	05/15/1992	Communications Center Notification Report Re: Spill to Bay
37	BAK000037	06/10/1991	NJDEP Memo to file through Jeffrey Sterling Re: CasChem UST Closure Inspection (Figure of boring locations and results attached)
38	BAK000038	11/15/1990	Communications Center Notification Report Re: Spill to Bay
39	BAK000039	11/27/1985	Incident notification report
40	BAK000040	05/28/1997	Communications Center Notification Report Re: Spill to Bay
41	BAK000041	03/06/1987	Hudson Regional Health Commission Field

TAB NO.	BATES NO.	DATE	DESCRIPTION
			Report Re: wash water released via storm sewer
42	BAK000042	09/05/1986	HRHC Field Investigation Report
43	BAK000043	12/20/2006	Dun & Bradstreet business Information Report Re: Vertellus
44	BAK000044	2006	Excerpt from www.caschem.com
45	BAK000045	07/10/2006	PRESS RELEASE Reilly Industries and Rutherford Chemicals Combine to Become Vertellus Specialties, Inc.
46	BAK000046	2006	Vertellus Specialties, Inc. Overview from Hoovers
47	BAK000047	8/15/2006	Article from Lube Report, <i>Vertellus Expands Castor Capacity</i>
48	BAK000048	10/07/1982	CasChem letter to NJDEP Re: Leak in line resulting in discharge to ground
49	BAK000049	01/01/1982	NJDEP Report of Site Visit to Spill File
50	BAK000050	06/11/1986	Incident Notification Report Re: TDI Release
51	BAK000051	12/06/1987	NJDEP Division of Environmental Quality Bureau of Emergency Response Region 1 Investigation Report
52	BAK000052	12/06/1987	NJDEP Duty Officer Report Re: Capsol 1715 Spill
53	BAK000053	11/01/1990	NJDEP Communications Center Notification Report Re: Diesel Fuel Spill
54	BAK000054	Undated	Fact Sheet Regarding Castor Oil
55	BAK000055	12/13/2006	Company history as reported by Hoovers with regard to Rutherford Chemicals, LLC
56	BAK000056		D&B Business Information Report with regard to Rutherford Chemicals, LLC
57	BAK000057	11/10/2003	Arsenal Capital Partners Press release with regard to the acquisition of Rutherford Chemicals LLC
58	BAK000058	12/1/1994	Waste Treatment Technology News article, <i>CasChem Fined for Storage Practices</i>
59	BAK000059	3/14/2007	Hoovers Fact Sheet regarding Cambrex
60	BAK000060	03/14/2007	Fitz Cehm – CasChem Company Information Sheet
61	BAK000061	03/2005	Cambrex.com “history”
62	BAK000062	12/8/81	Letter from CasChem to EPA re: notification of Hazardous Waste Activity form
63	BAK000063	01/14/83	Letter from CasChem to Bureau of Hazardous Waste re: Notice of Violation & clarification
64	BAK000064	05/12/83	Letter from NJDEP to CasChem re: Transfer of Ownership & Hazardous waste TSD status
65	BAK000065	12/06/91	Letter from NJDEP to CasChem re: Delisting of

TAB NO.	BATES NO.	DATE	DESCRIPTION
			S01 Activity and Status of S02 Activity
66	BAK000066	02/12/03	Letter from Rutherford Chemicals to City of Bayonne re: Certificate of Continued Occupancy – Rutherford Chemicals LLC
67	BBL000001	12/1951	Superior Court of New Jersey Chancery Division Hudson County Docket No. C-556-50 Civil Action Judgment
68	BBM000001	1949-50	New Jersey Industrial Directory
69	BBM000002	1960-61	New Jersey Industrial Directory & The New Jersey Industrial Market Place
70	BBM000003	1964	New Jersey State Industrial Directory
71	BBM000004	1970	New Jersey State Industrial Directory
72	BBM000005	1985	MacRae's Industrial Directory
73	BBM000006	1990	MacRae's Industrial Directory
74	BBM000007		Capital Changes Reporter
75	BBM000008		Mergent Industrial Manual re: NL Industries, Inc.
76	BBM000009	11/09/30	ProQuest Historical Newspapers The New York Times re: New incorporations
77	BBM000010	02/26/50	ProQuest historical newspaper re: new business
78	BBM000011	06/16/50	ProQuest historical newspaper re: Staff Changes at National Lead
79	BBM000012	08/16/53	ProQuest newspaper re: Castor Oil taking on many tasks
80	BBM000013	12/21/81	Jersey Journal newspaper re: Castor Oil plant purchase may create jobs
81	BBM000014	11/24/84	Bayonne Industrial newspaper re: CasChem announces expansion
82	BBM000015	02/08/85	ProQuest historical newspaper re: CasChem display ad
83	BBM000016	11/07/86	ProQuest historical newspaper re: CasChem display ad
84	BBM000017	11/17/86	Bayonne Industrial newspaper re: CasChem finds castor oil to be a linchpin
85	BBM000018	09/23/87	ProQuest historical newspaper re: CasChem display announcement
86	BBM000019	07/03/88	ProQuest historical newspaper re: When a Chemical Company is forced to tell all
87	BBM000020	07/14/90	ProQuest newspaper re: Cambrex Corporation company news
88	BBM000021	10/02/94	ProQuest newspaper re: classified ad
89	BBM000022	05/15/95	ProQuest newspaper re: Cambrex Corp finance brief
90	BBM000023	12/02/01	ProQuest newspaper re: The Industry behind the

TAB NO.	BATES NO.	DATE	DESCRIPTION
			State's Robust industry
91	BBM000024	10/10/03	Notice – Granting of Request for early termination of the waiting period under premerger notification rules
92	BBM000025	10/22/03	Factiva – Cambrex, Arsenal change terms of Rutherford sale
93	BBM000026	10/27/03	Factiva – Cambrex revises Rutherford Chemicals sale terms
94	BBM000027	11/10/03	Factiva – Cambrex completes sale of Rutherford Chemicals
95	BBM000028	11/10/03	Factiva – Cambrex completes sale of Rutherford Chemicals
96	BBM000029	11/19/03	Factiva – Arsenal completes Rutherford deal
97	BBM000030	12/14/03	Factiva – Mergers & Acquisitions; Life sciences company completes sale of Rutherford Chemicals
98	BBM000031	12/31/03	Factiva – Rutherford sale complete
99	BBM000032	01/31/04	Factiva – Cambrex finalizes sale of Rutherford
100	BBM000033	01/23/04	Factiva – Cambrex Corporation History
101	BBM000034	05/12/95	Securities & Exchange Commission – Form S-3 re: Cambrex Corporation
102	BBM000035	12/31/01	US Securities & Exchange Form 10-K Cambrex
103	BBM000036	12/31/02	US Securities & Exchange Form 10-K Cambrex
104	BBM000037	12/31/03	US Securities & Exchange Form 10-K Cambrex
105	BBM000038	2004	Cambrex Summary Annual Report
106	BBM000039	02/27/06	D&B Comprehensive Report re: CasChem
107	BBM000040	03/14/07	Hoovers info re: NL Industries, Inc.
108	BBM000041	03/14/07	D&B Comprehensive Report re: HJ Baker & Bro
109	BBM000042		Hoovers info re: Arsenal Capital Partners, Inc.
110	BBM000043	03/21/07	Cambrex Corp. – Financial details for the year 2002
111	BBM000044	03/14/07	H.J. Baker & Bro., Inc. – History
112	BBM000045	04/15/07	Cambrex – Company Overview
113	BBM000046	03/21/07	Client Profile – Cambrex – Michael Page Int'l
114	BBM000047	04/20/07	Web Profile: Terrence M. Mullen
115	BBM000048	09/28/23	ProQuest article re: 3 Die in Explosion of gasoline tanks
116	BBM000049	04/20/07	Superpages.com re: Rutherford Chemicals
117	BBM000050		Web site: Vertellus Specialties, Inc.
118	BBM000051	04/20/07	D&B Comprehensive Report re: Vertellus Specialties, Inc.
119	BBM000052		Hoovers info re: NL Industries, Inc.
120	BBM000053	04/20/07	D&B Comprehensive Report re: NL Industries
121	BBM000054	04/22/07	US Patent & Trademark Office re: Baker Castor

<b>TAB NO.</b>	<b>BATES NO.</b>	<b>DATE</b>	<b>DESCRIPTION</b>
122	BBM000055	04/22/07	Rutherford Chemicals, LLC – contact us
123	BBM000056	04/23/07	Arsenal Capital Partners
124	BBM000057	04/22/07	Rutherford Chemicals website re: Arsenal Capital acquires Rutherford Chemicals from Cambrex Corp.
125	BBM000058	11/10/03	Press Release: Arsenal Capital acquires Rutherford Chemicals from Cambrex Corporation
126	BBM000059	08/24/05	Chemical week – Rutherford's New Lease on Life
127	BBM000060	10/4/05	Arsenal Capital Partners acquires Reilly Industries, Inc. in a \$250 million transaction
128	BBM000061	05/22/06	CMR – Rutherford thrives on market focus
129	BBM000062	07/10/06	Arsenal Capital Partners creates a leading life science and natural products specialty chemical company
130	BBM000063	04/22/07	Vertellus appoints Laurence S. Slovin to head performance materials division
131	BBM000064	10/30/06	Vertellus performance materials announces new product series
132	BBM000065		Green chemistry comes naturally to Vertellus Specialties Inc.
133	BBM000066		Vertellus: Buildings on strengths
134	BBM000067	05/08/07	NJ State Business Entity Status Report for CasChem, Inc.
135	BBP000001	12/23/37	Certificate of Incorporation re: The Baker Castor Oil Company
136	BBP000002	10/23/81	Application for Certificate of Authority CasChem
137	BBP000003	10/20/83	Application for Certificate of Authority of CasChem Group, Inc.
138	BBP000004	05/20/87	NJ Dept. of Treasury – Certificate Relative to Corporate Filing Cambrex Corporation
139	BBP000005	10/15/03	NJ Dept. of Treasury – Registration of Foreign Limited Liability Company –Rutherford Chemicals
140	BBP000006	12/8/1891	Certificate of Organization – National Lead Co
141	BBP000007	03/22/07	NJ Dept. of Treasury certification that NL Industries (National Lead Company) did file a Certificate of Incorporation on 12/08/1891
142	BBP000008	6/26/1906	Certificate of Amendment – National Lead Company
143	BBP000009		National Lead Company – Certificate of Amendment of Certificate of Incorporation & Of Increase of Capital Stock

TAB NO.	BATES NO.	DATE	DESCRIPTION
144	BBP000010	04/21/27	National Lead Company – Certificate of Increase of Capital Stock & Amendment of Certificate of Incorporation
145	BBP000011	05/15/36	Certificate of Amendment of Certificate of Incorporation of National Lead Company
146	BBP000012	10/17/51	Certificate of Amendment of Certificate of Incorporation of National Lead Company
147	BBP000013	04/18/63	National Lead Company – Certificate of Retirement of Class A Preferred Stock & Class B Preferred Stock & Decrease of Capital and Amendment of the Certificate of Organization
148	BBP000014	04/22/68	Certificate of Amendment of Certificate of Organization of National Lead Company
149	BBP000015	04/16/71	Certificate of Amendment of Certificate of Organization of National Lead Company
150	BBP000016	01/18/77	NL Industries, Inc. – Amendment of Certificate 151 of Organization
151	BBP000017	10/21/77	NL 152 Industries, Inc. – Amendment of Certific153ate of Organization
152	BBP000018	05/04/81	Certificate 154 of Amendment of the Certificate of Organization of NL Industries, Inc.
153	BBP000019	11/23/82	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
154	BBP000020	05/06/83	Certificate of Amendment to the Certificate of Organization NL Industries, Inc.
155	BBP000021	11/15/83	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
156	BBP000022	11/29/84	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
157	BBP000023	11/20/85	Cancellation of Reacquired Shares NL Industries
158	BBP000024		Certificate of Amendment of Certificate of Organization of NL Industries, Inc.
159	BBP000025	07/13/86	Certificate of Amendment of Certificate of Organization of NL Industries, Inc.
160	BBP000026	11/17/86	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
161	BBP000027	07/29/87	Certificate of Amendment to Certificate of Organization of NL Industries, Inc.
162	BBP000028	11/30/87	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
163	BBP000029	11/14/88	Statement of Cancellation of Reacquired Shares of NL Industries, Inc.
164	BBP000030	12/22/88	Certificate of Amendment to the Certificate of Organization of NL Industries, Inc.
165	BBP000031	11/9/89	Statement of Cancellation of Reacquired Shares



TAB NO.	BATES NO.	DATE	DESCRIPTION
			of NL Industries, Inc.
166	BBP000032	07/26/90	NL Industries, Inc. – Amended and Restated Certificate of Incorporation
167	BBP000033	04/18/07	NYS Dept. of State – Division of Corporations – The Baker Castor Oil Company
168	BBP000034	04/15/07	California Business – The Baker Castor Oil Company
169	BBP000035	04/15/07	Ohio Secretary of State – The Baker Castor Oil Company
170	BBP000036	04/15/07	State of Delaware – Cambrex Petroleum, Inc.
171	BBP000037	04/15/07	State of Delaware – CasChem, Inc.
172	BBP000038	04/15/07	State of Illinois – CasChem Inc.
173	BBP000039	04/15/07	State of Delaware – Cambrex Corporation
174	BBP000040	04/15/07	State of Delaware – Cambrex North Brunswick
175	BBP000041	04/15/07	State of Delaware – Cambrex Absorption Systems, Inc.
176	BBP000042	04/19/07	State of Delaware – Rutherford Chemicals, Inc.
177	BBP000043	04/19/07	State of Delaware – Rutherford Chemicals Holdings Corp.
178	BBP000044	04/19/07	State of Delaware – Rutherford Chemicals LLC
179	BBP000045	04/15/07	State of Delaware – CasChem LLC
180	BBP000046	04/20/07	Corporation results – Vertellus
181	BBP000047	04/20/07	Corporation results – Reilly Industries
182	BBP000048		State of Delaware – Certificate of Incorporation of Cambrex Chemicals, Inc.
183	BBP000049	11/28/01	State of Delaware – Certificate of Amendment of Certificate of Incorporation of Cambrex Chemicals
184	BBP000050	08/27/03	State of Delaware – Certificate of Formation of Nepera LLC
185	BBP000051	09/09/03	Certificate of Amendment of Nepera LLC
186	BBP000052	09/09/03	Rutherford Chemicals
187	BBP000053	06/24/03	State of Delaware – Certificate of Incorporation of Rutherford Acquisition Corp.
188	BBP000054	11/10/03	State of Delaware – Certificate of Amended and Restated Certificate of Inc. Rutherford Acquisition
189	BBP000055	07/10/06	State of Delaware – Certificate of Merger of Rutherford Chemicals Holdings Corp with and into Vertellus Specialties Holding Corp.
190	BAC000001	2/28/00	NJDEP letter to Steve Gallo Re: NJPDES Permit No. NJ0105023
191	BAB000044	03/1998	City of Bayonne Combined Sewer Overflow Facilities and Sewer System Inventory and

TAB NO.	BATES NO.	DATE	DESCRIPTION
			Assessment report, Prepared by Killam
192	BAB000045	12/1997	Combined Sewer Overflow Characterization Study, Service Area Drainage and Land Usage Report, for the City of Bayonne, Prepared by Killam
193	BAH000053		Pamphlet <i>Bayonne's Ten Million Dollar 'Underground'</i> by Jim Bishop
194	KLL025396	09/15/1992	PVSC Annual Pretreatment Report for the period from August 1, 1991 through July 31, 1992.